

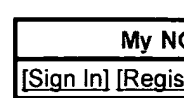
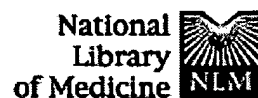
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




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

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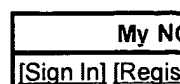
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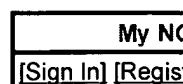
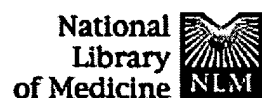
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=> s osteoprotegerin binding protein

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L1 147 OSTEOPROTEGERIN BINDING PROTEIN

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L2 128 DUP REM L1 (19 DUPLICATES REMOVED)

=> D L2 1-128

L2 ANSWER 1 OF 128 IFIPAT COPYRIGHT 2005 IFI on STN DUPLICATE 1
AN 10764698 IFIPAT;IFIUDB;IFICDB
TI ***OSTEOPROTEGERIN*** ***BINDING*** ***PROTEINS*** AND
RECEPTORS
IN Boyle William J
PA Amgen Inc (12117)
PI US 2005003400 A1 20050106
AI US 2004-825898 20040415
RLI US 1998-52521 19980330 CONTINUATION 6316408
US 2000-721212 20001121 CONTINUATION ABANDONED
US 1997-842842 19970416 CONTINUATION-IN-PART 5843678
US 1997-880855 19970623 CONTINUATION-IN-PART ABANDONED
FI US 2005003400 20050106
US 6316408
US 5843678
DT Utility; Patent Application - First Publication
FS CHEMICAL
APPLICATION
CLMN 15

L2 ANSWER 2 OF 128 USPATFULL on STN
AN 2005:81108 USPATFULL
TI Targeted ligands
IN Herman, William, Thornhill, CANADA
PI US 2005069549 A1 20050331
AI US 2004-501453 A1 20041122 (10)
WO 2003-CA44 20030114
PRAI CA 2002-2368708 20020114
WO 2002-CA317 20020311
CA 2002-2397169 20020813
CA 2002-2402930 20020919
DT Utility
FS APPLICATION
LN.CNT 9273
INCL INCLM: 424/178.100
NCL NCLM: 424/178.100

IC [7]
ICM: A61K039-395
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 3 OF 128 USPATFULL on STN
AN 2004:203879 USPATFULL
TI Rank-ligand-induced sodium/proton antiporter polypeptides
IN Bird, Timothy A., Bainbridge, WA, UNITED STATES
Tometsko, Mark E., Seattle, WA, UNITED STATES
Dougall, William C., Seattle, WA, UNITED STATES
Mosley, Bruce A., Seattle, WA, UNITED STATES
PI US 2004157771 A1 20040812
AI US 2003-372613 A1 20030221 (10)
PRAI US 2002-361891P 20020228 (60)
DT Utility
FS APPLICATION
LN.CNT 5274
INCL INCLM: 514/012.000
INCLS: 530/350.000; 435/069.100; 435/320.100; 435/325.000; 536/023.500
NCL NCLM: 514/012.000
NCLS: 530/350.000; 435/069.100; 435/320.100; 435/325.000; 536/023.500
IC [7]
ICM: A61K038-17
ICS: C07K014-705; C07H021-04
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 4 OF 128 CIN COPYRIGHT 2005 ACS on STN
AN 33(4):1819S CIN
TI Patent applications
SO Biotechnol. News, 8 Jan 2004 (20040108), 24(1), p. 11. ISSN: 0273-3226;
CODEN: BINWEY.
LA English

L2 ANSWER 5 OF 128 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 2
AN 2003:435069 CAPLUS
DN 139:35078
TI Selective binding agents of ***osteoprotegerin*** ***binding***
protein (OPGbp), such as antagonist antibodies, for use in the
treatment of bone disorders
IN Deshpande, Rajendra V.; Hitz, Anna; Boyle, William James; Sullivan, John
K.
PA Amgen Inc., USA
SO U.S. Pat. Appl. Publ., 123 pp., Cont.-in-part of U.S. Ser. No. 511,139,
abandoned.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2003103978	A1	20030605	US 2001-791153	20010222
	CA 2400929	AA	20010830	CA 2001-2400929	20010223
	WO 2001062932	A1	20010830	WO 2001-US5973	20010223
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	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	EP 1257648	A1	20021120	EP 2001-911158	20010223
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
	JP 2003523772	T2	20030812	JP 2001-562706	20010223
PRAI	US 2000-511139	B2	20000223		
	US 2001-791153	A	20010222		
	WO 2001-US5973	W	20010223		

L2 ANSWER 6 OF 128 IFIPAT COPYRIGHT 2005 IFI on STN DUPLICATE 3
AN 10360068 IFIPAT;IFIUDB;IFICDB

TI ANTIBODIES SPECIFIC FOR ***OSTEOPROTEGERIN*** ***BINDING***
PROTEINS AND METHOD OF USE; NUCLEOTIDE SEQUENCES CODING
POLYPEPTIDE FOR USE IN TREATMENT OF BONE DISORDERS

IN BOYLE WILLIAM J

PA Unassigned Or Assigned To Individual (68000)

PI US 2003104485 A1 20030605

AI US 1998-79569 19980514

RLI US 1997-842842 19970416 DIVISION 5843678

FI US 2003104485 20030605

US 5843678

DT Utility; Patent Application - First Publication

FS CHEMICAL

APPLICATION

CLMN 33

GI 3 Figure(s).

FIG. 1. Structure and sequence of the 32D-F3 insert encoding OPG binding protein. Predicted transmembrane domain and sites for asparagine-linked carbohydrate chains are underlined.

FIG. 2. OPG binding protein expression in COS-7 cells transfected with pcdNA/32I)-F3. Cells were lipofected with pcdNA/32D-F3 DNA, the assayed for binding to either goat antihuman IgG1 alkaline phosphatase conjugate (secondary alone), human OPG(22-201)-Fc plus secondary (OPG-Fc), or a chimeric ATAR extracellular domain-Fc fusion protein (sATAR-Fc). ATAR is a new member of the TNFR superfamily, and the sATAR-Fc fusion protein serves as a control for both human IgG1 Fc domain binding, and generic TNFR related protein, binding to 32D cell surface molecules.

FIG. 3. Expression of OPG binding protein in human tissues. Northern blot analysis of human tissue mRNA (Clontech) using a radiolabeled 32D-F3 derived hybridization probe. Relative molecular mass is indicated at the left in kilobase pairs (kb). Arrowhead on right side indicates the migration of an approximately 2.5 kb transcript detected in lymph node mRNA. A very faint band of the same mass is also detected in fetal liver.

L2 ANSWER 7 OF 128 IFIPAT COPYRIGHT 2005 IFI on STN DUPLICATE 4

AN 10356071 IFIPAT;IFIUDB;IFICDB

TI ***OSTEOPROTEGERIN*** ***BINDING*** ***PROTEINS*** ; FOR
THERAPY OF BONE DISEASES, SUCH AS OSTEOPOROSIS, BONE LOSS FROM ARTHRITIS,
PAGET'S DISEASE, AND HYPERCALCEMIA

IN BOYLE WILLIAM J

PA Unassigned Or Assigned To Individual (68000)

PI US 2003100488 A1 20030529

AI US 1998-211297 19981214

RLI US 1997-880855 19970623 CONTINUATION

US 1997-842842 19970416 CONTINUATION-IN-PART 5843678

FI US 2003100488 20030529

US 5843678

DT Utility; Patent Application - First Publication

FS CHEMICAL

APPLICATION

CLMN 36

GI 9 Figure(s).

FIG. 1. Structure and sequence of the 32D-F3 insert encoding OPG binding protein. Predicted transmembrane domain and sites for asparagine-linked carbohydrate chains are underlined.

FIG. 2. OPG binding protein expression in COS-7 cells transfected with pcdNA/32D-F3. Cells were lipofected with pcdNA/ 32D-F3 DNA, the assayed for binding to either goat anti-human IgG1 alkaline phosphatase conjugate (secondary alone), human OPG(22-201)-Fc plus secondary (OPG-Fc), or a chimeric ATAR extracellular domain-Fc fusion protein (sATAR-Fc). ATAR is a new member of the TNFR superfamily, and the sATAR-Fc fusion protein serves as a control for both human IgG1 Fc domain binding, and generic TNFR related protein, binding to 32D cell surface molecules.

FIG. 3. Expression of OPG binding protein in human tissues. Northern blot analysis of human tissue mRNA (Clontech) using a radiolabeled 32D-F3 derived hybridization probe. Relative molecular mass is indicated at the left in kilobase pairs (kb). Arrowhead on right side indicates the migration of an approximately 2.5 kb transcript detected in lymph node mRNA. A very faint band of the same mass is also detected in fetal liver.

FIG. 4. Structure and sequence of the pcdNA/hu OPGbp 1.1 insert encoding the human OPG binding protein. The predicted transmembrane domain and site for asparagine-linked carbohydrate chains are underlined.

FIG. 5. Stimulation of osteoclast development in vitro from bone marrow

macrophage and ST2 cell cocultures treated with recombinant murine OPG binding protein (158-316). Cultures were treated with varying concentrations of murine OPG binding protein ranging from 1.6 to 500 ng/ml. After 8-10 days, cultures were lysed, and TRAP activity was measured by solution assay. In addition, some cultures were simultaneously treated with 1, 10, 100, 500, and 1000 ng/ml of recombinant murine OPG (22-401)-Fc protein. Murine OPG binding protein induces a dosedependent stimulation in osteoclast formation, whereas OPG (22401)-Fc inhibits osteoclast formation.

FIG. 6. Stimulation of osteoclast development from bone marrow precursors in vitro in the presence of M-CSF and murine OPG binding protein (158-316). Mouse bone marrow was harvested, and cultured in the presence 250, 500, 1000, and 2000 U/ml of M-CSF. Varying concentrations of OPG binding protein (158-316), ranging from 1.6 to 500 ng/ml, were added to these same cultures. Osteoclast development was measured by TRAP solution assay.

FIG. 7. Osteoclasts derived from bone marrow cells in the presence of both M-CSF and OPG binding protein (158-316) resorb bone in vitro. Bone marrow cells treated with either M-CSF, OPG binding protein, or with both factors combined, were plated onto bone slices in culture wells, and were allowed to develop into mature osteoclasts. The resulting cultures were then stained with Toluidine Blue (left column), or histochemically to detect TRAP enzyme activity (right column). In cultures receiving both factors, mature osteoclasts were formed that were capable of eroding bone as judged by the presence of blue stained pits on the bone surface. This correlated with the presence of multiple large, multinucleated, TRAP positive cells.

FIG. 8. Graph showing the whole blood ionized calcium (iCa) levels from mice injected with OPG binding protein, 51 hours after the first injection, and in mice also receiving concurrent OPG administration. OPG binding protein significantly and dose dependently increased iCa levels. OPG (1 mg/kg/day) completely blocked the increase in iCa at a dose of OPG binding protein of 5 ug/day, and partially blocked the increase at a dose of OPG binding protein of 25 ug/day. (*), different to vehicle treated control (p less-than 0.05). (#), OPG treated iCa level significantly different to level in mice receiving that dose of OPG binding protein alone (p less-than 0.05).

FIG. 9. Radiographs of the left femur and tibia in mice treated with 0, 5, 25 or 100 ug/day of OPG binding protein for 3.5 days. There is a dose dependent decrease in bone density evident most clearly in the proximal tibial metaphysis of these mice, and that is profound at a dose of 100 ug/day.

L2 ANSWER 8 OF 128 USPATFULL on STN
AN 2003:277129 USPATFULL
TI Peptides and related molecules that bind to TALL-1
IN Min, Hosung, Newbury Park, CA, UNITED STATES
Hsu, Hailing, Moorpark, CA, UNITED STATES
Xiong, Fei, Thousand Oaks, CA, UNITED STATES
PA Amgen Inc. (U.S. corporation)
PI US 2003195156 A1 20031016
AI US 2002-145206 A1 20020513 (10)
PRAI US 2001-290196P 20010511 (60)
DT Utility
FS APPLICATION
LN.CNT 2728
INCL INCLM: 514/014.000
INCLS: 514/015.000
NCL NCLM: 514/014.000
NCLS: 514/015.000
IC [7]
ICM: A61K038-10
ICS: A61K038-08
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 9 OF 128 USPATFULL on STN
AN 2003:146245 USPATFULL
TI TALL-1 receptor molecules and uses thereof
IN Hsu, Hailing, Moorpark, CA, UNITED STATES
PA Amgen Inc. A Corporation of the State of Delaware (U.S. corporation)
PI US 2003099990 A1 20030529
AI US 2002-251947 A1 20020920 (10)

PRAI US 2001-324238P 20010921 (60)
DT Utility
FS APPLICATION
LN.CNT 4507
INCL INCLM: 435/006.000
INCLS: 435/007.200; 435/069.100; 435/320.100; 435/325.000; 530/350.000;
536/023.500
NCL NCLM: 435/006.000
NCLS: 435/007.200; 435/069.100; 435/320.100; 435/325.000; 530/350.000;
536/023.500
IC [7]
ICM: C12Q001-68
ICS: G01N033-53; G01N033-567; C07H021-04; C12P021-02; C12N005-06;
C07K014-705
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 10 OF 128 USPATFULL on STN
AN 2003:57548 USPATFULL
TI Composition and methods for the production of biological tissues and
tissue constructs
IN Mizuno, Shuichi, Brookline, MA, UNITED STATES
Tokuno, Toshimasa, Tokyo, JAPAN
Berlowitz Tarrant, Laurence J., Easthampton, MA, UNITED STATES
PA Histogenics Corporation, Easthampton, MA (U.S. corporation)
PI US 2003040113 A1 20030227
AI US 2002-104677 A1 20020322 (10)
PRAI US 2001-278534P 20010323 (60)
US 2002-352085P 20020124 (60)
DT Utility
FS APPLICATION
LN.CNT 1569
INCL INCLM: 435/395.000
NCL NCLM: 435/395.000
IC [7]
ICM: C12N005-02
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 11 OF 128 USPATFULL on STN
AN 2003:29843 USPATFULL
TI Use of rank antagonists to treat cancer
IN Dougall, William C., Seattle, WA, UNITED STATES
PI US 2003021785 A1 20030130
AI US 2002-166232 A1 20020605 (10)
PRAI US 2001-296670P 20010606 (60)
DT Utility
FS APPLICATION
LN.CNT 1870
INCL INCLM: 424/146.100
INCLS: 514/012.000; 514/044.000
NCL NCLM: 424/146.100
NCLS: 514/012.000; 514/044.000
IC [7]
ICM: A61K048-00
ICS: A61K038-17; A61K039-395
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 12 OF 128 USPATFULL on STN
AN 2003:23315 USPATFULL
TI Therapeutic use of rank antagonists
IN Dougall, William C., Seattle, WA, UNITED STATES
Anderson, Dirk M., Seattle, WA, UNITED STATES
PI US 2003017151 A1 20030123
AI US 2002-151071 A1 20020517 (10)
PRAI US 2001-291919P 20010517 (60)
DT Utility
FS APPLICATION
LN.CNT 2176
INCL INCLM: 424/143.100
INCLS: 514/044.000
NCL NCLM: 424/143.100
NCLS: 514/044.000
IC [7]

ICM: A61K048-00
ICS: A61K039-395

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 13 OF 128 USPATFULL on STN
AN 2003:17899 USPATFULL
TI Stimulation of osteogenesis using rank ligand fusion proteins
IN Lam, Jonathan, West Memphis, AR, UNITED STATES
Ross, F. Patrick, Olivette, MO, UNITED STATES
Teitelbaum, Steven L., University City, MO, UNITED STATES
PA Barnes-Jewish Hospital (2)
PI US 2003013651 A1 20030116
AI US 2002-105057 A1 20020322 (10)
PRAI US 2001-277855P 20010322 (60)
US 2001-311163P 20010809 (60)
US 2001-329231P 20011012 (60)
US 2001-328876P 20011012 (60)
US 2001-329393P 20011015 (60)
DT Utility
FS APPLICATION
LN.CNT 1942
INCL INCLM: 514/012.000
NCL NCLM: 514/012.000
IC [7]

ICM: A61K038-17

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 14 OF 128 USPATFULL on STN DUPLICATE 5
AN 2002:164694 USPATFULL
TI Screening assays for agonists and antagonists of receptor activator of
NF-kappa B
IN Dougall, William C., Seattle, WA, UNITED STATES
PI US 2002086312 A1 20020704
US 6884598 B2 20050426
AI US 2001-957944 A1 20010920 (9)
PRAI US 2000-235157P 20000922 (60)
DT Utility
FS APPLICATION
LN.CNT 3029
INCL INCLM: 435/006.000
INCL: 435/007.210
NCL NCLM: 435/008.000
NCL: 435/007.100; 435/007.200; 530/350.000; 536/023.500
IC [7]
ICM: C12Q001-68
ICS: G01N033-567

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 15 OF 128 USPATFULL on STN DUPLICATE 6
AN 2002:156701 USPATFULL
TI Methods and compositions of matter concerning APRIL/G70, BCMA,
BLYS/AGP-3 and TACI
IN Theill, Lars Eyde, Thousand Oaks, CA, UNITED STATES
Yu, Gang, Thousand Oaks, CA, UNITED STATES
PI US 2002081296 A1 20020627
US 6774106 B2 20040810
AI US 2001-854864 A1 20010514 (9)
PRAI US 2000-204039P 20000512 (60)
US 2000-214591P 20000627 (60)
DT Utility
FS APPLICATION
LN.CNT 2383
INCL INCLM: 424/144.100
INCL: 424/155.100
NCL NCLM: 514/012.000
NCL: 424/185.100; 424/192.100
IC [7]

ICM: A61K039-395

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 16 OF 128 USPATFULL on STN
AN 2002:287553 USPATFULL

TI Receptor from TNF family
IN Boyle, William J., Moorpark, CA, UNITED STATES
Hsu, Hailing, Moorpark, CA, UNITED STATES
PI US 2002160416 A1 20021031
AI US 2001-779050 A1 20010212 (9)
PRAI US 2000-181800P 20000211 (60)
DT Utility
FS APPLICATION
LN.CNT 2856
INCL INCLM: 435/007.100
INCLS: 530/389.100; 530/395.000; 536/053.000
NCL NCLM: 435/007.100
NCLS: 530/389.100; 530/395.000; 536/053.000
IC [7]
ICM: G01N033-53
ICS: C07K016-46; C08B037-00
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 17 OF 128 USPATFULL on STN
AN 2002:272856 USPATFULL
TI TNF receptor-like molecules and uses thereof
IN Theill, Lars Eyde, Thousand Oaks, CA, UNITED STATES
Yeh, Richard, Ithaca, NY, UNITED STATES
Silbiger, Scott Michael, Woodland Hills, CA, UNITED STATES
Yu, Gang, Thousand Oaks, CA, UNITED STATES
Senaldi, Giorgio, Thousand Oaks, CA, UNITED STATES
PI US 2002150977 A1 20021017
AI US 2001-948018 A1 20010905 (9)
PRAI US 2000-230191P 20000905 (60)
DT Utility
FS APPLICATION
LN.CNT 5781
INCL INCLM: 435/069.100
INCLS: 435/325.000; 435/320.100; 530/350.000; 536/023.500; 435/194.000
NCL NCLM: 435/069.100
NCLS: 435/325.000; 435/320.100; 530/350.000; 536/023.500; 435/194.000
IC [7]
ICM: C12P021-02
ICS: C12N005-06; C07H021-04; C12N009-12
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 18 OF 128 USPATFULL on STN
AN 2002:164405 USPATFULL
TI Methods and compositions of matter concerning APRIL/G70, BCMA,
BLYS/AGP-3, and TACI
IN Theill, Lars Eyde, Thousand Oaks, CA, UNITED STATES
Yu, Gang, Thousand Oaks, CA, UNITED STATES
PI US 2002086018 A1 20020704
AI US 2001-855158 A1 20010514 (9)
PRAI US 2000-204039P 20000512 (60)
US 2000-214591P 20000627 (60)
DT Utility
FS APPLICATION
LN.CNT 1973
INCL INCLM: 424/146.100
INCLS: 424/153.100
NCL NCLM: 424/146.100
NCLS: 424/153.100
IC [7]
ICM: A61K039-395
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 19 OF 128 BIOTECHNO COPYRIGHT 2005 Elsevier Science B.V. on STN
DUPLICATE
AN 2002:34223904 BIOTECHNO
TI Antagonistic selective binding agents of ***osteoprotegerin***
binding ***protein***
SO Expert Opinion on Therapeutic Patents, (2002), 12/3 (469-470), 5
reference(s)
CODEN: EOTPEG ISSN: 1354-3776
DT Journal; Article
CY United Kingdom

LA English
SL English

L2 ANSWER 20 OF 128 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on
STN DUPLICATE 8
AN 2002:225630 BIOSIS
DN PREV200200225630
TI Methods of use for osetoprotegerin binding protein receptors.
AU Boyle, William J. [Inventor]
CS ASSIGNEE: Amgen Inc.
PI US 6316408 November 13, 2001
SO Official Gazette of the United States Patent and Trademark Office Patents,
(Nov. 13, 2001) Vol. 1252, No. 2. [http://www.uspto.gov/web/menu/patdata.ht](http://www.uspto.gov/web/menu/patdata.html)
ml. e-file.
CODEN: OGUPE7. ISSN: 0098-1133.
DT Patent
LA English
ED Entered STN: 3 Apr 2002
Last Updated on STN: 3 Apr 2002

L2 ANSWER 21 OF 128 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN
DUPLICATE 9
AN 2002-00826 BIOTECHDS
TI Antibodies that bind antagonistically to osteoprotein binding, useful for
treating osteoporosis, metastasis of cancer to bone, rheumatoid arthritis,
hypercalcemia of malignancy and steroid osteoporosis;
monoclonal antibody and humanized antibody, vector expression in CHO
cell
AU Deshpande R V; Hitz A; Boyle W J; Sullivan J K
PA Amgen
LO Thousand Oaks, CA, USA.
PI WO 2001062932 30 Aug 2001
AI WO 2001-US5973 23 Feb 2001
PRAI US 2001-791153 22 Mar 2001; US 2000-511139 23 Feb 2000
DT Patent
LA English
OS WPI: 2001-557706 [62]

L2 ANSWER 22 OF 128 USPATFULL on STN
AN 2001:14213 USPATFULL
TI Method for diagnosing and treating chronic pelvic pain syndrome
IN Alexander, Richard B., Ellicott City, MD, United States
Ponniah, Sathibalan, Ellicott City, MD, United States
PA University of Maryland, Baltimore, Baltimore, MD, United States (U.S.
corporation)
PI US 6180355 B1 20010130
AI US 1999-306927 19990507 (9)
PRAI US 1998-84668P 19980507 (60)
DT Utility
FS Granted
LN.CNT 3501
INCL INCLM: 435/007.100
INCLS: 435/007.800
NCL NCLM: 435/007.100
NCLS: 435/007.800
IC [7]
ICM: G01N033-50
ICS: G01N033-53
EXF 435/7.1; 435/7.8; 435/7.92; 435/7.94; 424/1.41; 424/145.1; 424/158.1;
436/501; 436/86; 436/87
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 23 OF 128 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on
STN DUPLICATE 10
AN 1999:71302 BIOSIS
DN PREV199900071302
TI ***Osteoprotegerin*** ***binding*** ***proteins***
AU Boyle, W. J. [Inventor]
CS Moorpark, Calif., USA
ASSIGNEE: AMGEN INC.
PI US 5843678 Dec. 1, 1998
SO Official Gazette of the United States Patent and Trademark Office Patents,

(Dec. 1, 1998) Vol. 1217, No. 1, pp. 472. print.
CODEN: OGUPE7. ISSN: 0098-1133.

DT Patent
LA English
ED Entered STN: 1 Mar 1999
Last Updated on STN: 1 Mar 1999

L2 ANSWER 24 OF 128 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1998:712352 CAPLUS
DN 129:328897
TI A protein binding osteoprotegerin playing a role in osteoclast maturation
for use in the treatment of bone loss
IN Boyle, William J.
PA Amgen Inc., USA
SO PCT Int. Appl., 108 pp.
CODEN: PIXXD2

DT Patent
LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9846751	A1	19981022	WO 1998-US7584	19980415
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	US 5843678	A	19981201	US 1997-842842	19970416
	US 6316408	B1	20011113	US 1998-52521	19980330
	CA 2285746	AA	19981022	CA 1998-2285746	19980415
	AU 9871205	A1	19981111	AU 1998-71205	19980415
	AU 743257	B2	20020124		
	EP 975754	A1	20000202	EP 1998-918244	19980415
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	BR 9808545	A	20000523	BR 1998-8545	19980415
	EE 9900611	A	20000815	EE 1999-611	19980415
	JP 2001526532	T2	20011218	JP 1998-544257	19980415
	NZ 500253	A	20020927	NZ 1998-500253	19980415
	ZA 9803189	A	19981016	ZA 1998-3189	19980416
	US 2003104485	A1	20030605	US 1998-79569	19980514
	MX 9909387	A	20000630	MX 1999-9387	19991013
	NO 9905044	A	19991215	NO 1999-5044	19991015
	AU 2001095234	A5	20020124	AU 2001-95234	20011130
PRAI	US 1997-842842	A	19970416		
	US 1997-880855	A2	19970623		
	US 1998-52521	A	19980330		
	AU 1998-71205	A3	19980415		
	WO 1998-US7584	W	19980415		

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 25 OF 128 DGENE COPYRIGHT 2005 The Thomson Corp on STN
AN AAW83201 peptide DGENE
TI Nucleic acid encoding osteoprotegrin binding protein - useful for, e.g. treating bone diseases by modulating osteoclast differentiation and for diagnosis
IN Boyle W J
PA (AMGE-N) AMGEN INC.
PI WO 9846751 A1 19981022 47
AI WO 1998-US7584 19980415
PRAI US 1998-52521 19980330
US 1997-842842 19970416
US 1997-880855 19970623
DT Patent
LA English
OS 1998-594578 [50]
DESC Murine osteoclast differentiation and activation receptor peptide.

L2 ANSWER 26 OF 128 DGENE COPYRIGHT 2005 The Thomson Corp on STN
 AN AAW83200 Protein DGENE
 TI Nucleic acid encoding osteoprotegrin binding protein - useful for, e.g. treating bone diseases by modulating osteoclast differentiation and for diagnosis
 IN Boyle W J
 PA (AMGE-N) AMGEN INC.
 PI WO 9846751 A1 19981022 47
 AI WO 1998-US7584 19980415
 PRAI US 1998-52521 19980330
 US 1997-842842 19970416
 US 1997-880855 19970623
 DT Patent
 LA English
 OS 1998-594578 [50]
 CR N-PSDB: AAV70304
 DESC Murine osteoclast differentiation and activation receptor.

L2 ANSWER 27 OF 128 DGENE COPYRIGHT 2005 The Thomson Corp on STN
 AN AAW83199 peptide DGENE
 TI Nucleic acid encoding osteoprotegrin binding protein - useful for, e.g. treating bone diseases by modulating osteoclast differentiation and for diagnosis
 IN Boyle W J
 PA (AMGE-N) AMGEN INC.
 PI WO 9846751 A1 19981022 47
 AI WO 1998-US7584 19980415
 PRAI US 1998-52521 19980330
 US 1997-842842 19970416
 US 1997-880855 19970623
 DT Patent
 LA English
 OS 1998-594578 [50]
 DESC Murine ***osteoprotegerin*** ***binding*** ***protein*** EF
 loop-Cys peptide.

L2 ANSWER 28 OF 128 DGENE COPYRIGHT 2005 The Thomson Corp on STN
 AN AAW83198 peptide DGENE
 TI Nucleic acid encoding osteoprotegrin binding protein - useful for, e.g. treating bone diseases by modulating osteoclast differentiation and for diagnosis
 IN Boyle W J
 PA (AMGE-N) AMGEN INC.
 PI WO 9846751 A1 19981022 47
 AI WO 1998-US7584 19980415
 PRAI US 1998-52521 19980330
 US 1997-842842 19970416
 US 1997-880855 19970623
 DT Patent
 LA English
 OS 1998-594578 [50]
 DESC Murine ***osteoprotegerin*** ***binding*** ***protein*** EF
 loop peptide.

L2 ANSWER 29 OF 128 DGENE COPYRIGHT 2005 The Thomson Corp on STN
 AN AAW83197 peptide DGENE
 TI Nucleic acid encoding osteoprotegrin binding protein - useful for, e.g. treating bone diseases by modulating osteoclast differentiation and for diagnosis
 IN Boyle W J
 PA (AMGE-N) AMGEN INC.
 PI WO 9846751 A1 19981022 47
 AI WO 1998-US7584 19980415
 PRAI US 1998-52521 19980330
 US 1997-842842 19970416
 US 1997-880855 19970623
 DT Patent
 LA English
 OS 1998-594578 [50]
 DESC Murine ***osteoprotegerin*** ***binding*** ***protein*** BB'
 loop-Cys peptide.

L2 ANSWER 30 OF 128 DGENE COPYRIGHT 2005 The Thomson Corp on STN
 AN AAW83196 peptide DGENE
 TI Nucleic acid encoding osteoprotegrin binding protein - useful for, e.g. treating bone diseases by modulating osteoclast differentiation and for diagnosis
 IN Boyle W J
 PA (AMGE-N) AMGEN INC.
 PI WO 9846751 A1 19981022 47
 AI WO 1998-US7584 19980415
 PRAI US 1998-52521 19980330
 US 1997-842842 19970416
 US 1997-880855 19970623
 DT Patent
 LA English
 OS 1998-594578 [50]
 DESC Murine ***osteoprotegerin*** ***binding*** ***protein*** BB' loop peptide.

L2 ANSWER 31 OF 128 DGENE COPYRIGHT 2005 The Thomson Corp on STN
 AN AAW83195 Protein DGENE
 TI Nucleic acid encoding osteoprotegrin binding protein - useful for, e.g. treating bone diseases by modulating osteoclast differentiation and for diagnosis
 IN Boyle W J
 PA (AMGE-N) AMGEN INC.
 PI WO 9846751 A1 19981022 47
 AI WO 1998-US7584 19980415
 PRAI US 1998-52521 19980330
 US 1997-842842 19970416
 US 1997-880855 19970623
 DT Patent
 LA English
 OS 1998-594578 [50]
 CR N-PSDB: AAV70285
 DESC Human ***osteoprotegerin*** ***binding*** ***protein*** from the pcDNA/huOPGbp1.linsert.

L2 ANSWER 32 OF 128 DGENE COPYRIGHT 2005 The Thomson Corp on STN
 AN AAW83194 Protein DGENE
 TI Nucleic acid encoding osteoprotegrin binding protein - useful for, e.g. treating bone diseases by modulating osteoclast differentiation and for diagnosis
 IN Boyle W J
 PA (AMGE-N) AMGEN INC.
 PI WO 9846751 A1 19981022 47
 AI WO 1998-US7584 19980415
 PRAI US 1998-52521 19980330
 US 1997-842842 19970416
 US 1997-880855 19970623
 DT Patent
 LA English
 OS 1998-594578 [50]
 CR N-PSDB: AAV70284
 DESC Human ***osteoprotegerin*** ***binding*** ***protein*** from the 32D-F3 ins.

L2 ANSWER 33 OF 128 DGENE COPYRIGHT 2005 The Thomson Corp on STN
 AN AAV70306 DNA DGENE
 TI Nucleic acid encoding osteoprotegrin binding protein - useful for, e.g. treating bone diseases by modulating osteoclast differentiation and for diagnosis
 IN Boyle W J
 PA (AMGE-N) AMGEN INC.
 PI WO 9846751 A1 19981022 47
 AI WO 1998-US7584 19980415
 PRAI US 1998-52521 19980330
 US 1997-842842 19970416
 US 1997-880855 19970623
 DT Patent
 LA English
 OS 1998-594578 [50]
 DESC Murine osteoclast differentiation and activation receptor PCR primer #2.

L2 ANSWER 34 OF 128 DGENE COPYRIGHT 2005 The Thomson Corp on STN
 AN AAV70305 DNA DGENE
 TI Nucleic acid encoding osteoprotegrin binding protein - useful for, e.g. treating bone diseases by modulating osteoclast differentiation and for diagnosis
 IN Boyle W J
 PA (AMGE-N) AMGEN INC.
 PI WO 9846751 A1 19981022 47
 AI WO 1998-US7584 19980415
 PRAI US 1998-52521 19980330
 US 1997-842842 19970416
 US 1997-880855 19970623
 DT Patent
 LA English
 OS 1998-594578 [50]
 DESC Murine osteoclast differentiation and activation receptor PCR primer #1.

L2 ANSWER 35 OF 128 DGENE COPYRIGHT 2005 The Thomson Corp on STN
 AN AAV70304 DNA DGENE
 TI Nucleic acid encoding osteoprotegrin binding protein - useful for, e.g. treating bone diseases by modulating osteoclast differentiation and for diagnosis
 IN Boyle W J
 PA (AMGE-N) AMGEN INC.
 PI WO 9846751 A1 19981022 47
 AI WO 1998-US7584 19980415
 PRAI US 1998-52521 19980330
 US 1997-842842 19970416
 US 1997-880855 19970623
 DT Patent
 LA English
 OS 1998-594578 [50]
 CR P-PSDB: AAW83200
 DESC Murine osteoclast differentiation and activation receptor encoding DNA.

L2 ANSWER 36 OF 128 DGENE COPYRIGHT 2005 The Thomson Corp on STN
 AN AAV70303 DNA DGENE
 TI Nucleic acid encoding osteoprotegrin binding protein - useful for, e.g. treating bone diseases by modulating osteoclast differentiation and for diagnosis
 IN Boyle W J
 PA (AMGE-N) AMGEN INC.
 PI WO 9846751 A1 19981022 47
 AI WO 1998-US7584 19980415
 PRAI US 1998-52521 19980330
 US 1997-842842 19970416
 US 1997-880855 19970623
 DT Patent
 LA English
 OS 1998-594578 [50]
 DESC Murine ***osteoprotegerin*** ***binding*** ***protein*** PCR primer 1616-42.

L2 ANSWER 37 OF 128 DGENE COPYRIGHT 2005 The Thomson Corp on STN
 AN AAV70302 DNA DGENE
 TI Nucleic acid encoding osteoprotegrin binding protein - useful for, e.g. treating bone diseases by modulating osteoclast differentiation and for diagnosis
 IN Boyle W J
 PA (AMGE-N) AMGEN INC.
 PI WO 9846751 A1 19981022 47
 AI WO 1998-US7584 19980415
 PRAI US 1998-52521 19980330
 US 1997-842842 19970416
 US 1997-880855 19970623
 DT Patent
 LA English
 OS 1998-594578 [50]
 DESC Murine ***osteoprotegerin*** ***binding*** ***protein*** PCR primer 1616-41.

L2 ANSWER 38 OF 128 DGENE COPYRIGHT 2005 The Thomson Corp on STN
 AN AAV70301 DNA DGENE
 TI Nucleic acid encoding osteoprotegrin binding protein - useful for, e.g. treating bone diseases by modulating osteoclast differentiation and for diagnosis
 IN Boyle W J
 PA (AMGE-N) AMGEN INC.
 PI WO 9846751 A1 19981022 47
 AI WO 1998-US7584 19980415
 PRAI US 1998-52521 19980330
 US 1997-842842 19970416
 US 1997-880855 19970623
 DT Patent
 LA English
 OS 1998-594578 [50]
 DESC Murine ***osteoprotegerin*** ***binding*** ***protein*** PCR primer 1616-44.

L2 ANSWER 39 OF 128 DGENE COPYRIGHT 2005 The Thomson Corp on STN
 AN AAV70300 DNA DGENE
 TI Nucleic acid encoding osteoprotegrin binding protein - useful for, e.g. treating bone diseases by modulating osteoclast differentiation and for diagnosis
 IN Boyle W J
 PA (AMGE-N) AMGEN INC.
 PI WO 9846751 A1 19981022 47
 AI WO 1998-US7584 19980415
 PRAI US 1998-52521 19980330
 US 1997-842842 19970416
 US 1997-880855 19970623
 DT Patent
 LA English
 OS 1998-594578 [50]
 DESC Murine ***osteoprotegerin*** ***binding*** ***protein*** PCR primer 1602-59.

L2 ANSWER 40 OF 128 DGENE COPYRIGHT 2005 The Thomson Corp on STN
 AN AAV70299 DNA DGENE
 TI Nucleic acid encoding osteoprotegrin binding protein - useful for, e.g. treating bone diseases by modulating osteoclast differentiation and for diagnosis
 IN Boyle W J
 PA (AMGE-N) AMGEN INC.
 PI WO 9846751 A1 19981022 47
 AI WO 1998-US7584 19980415
 PRAI US 1998-52521 19980330
 US 1997-842842 19970416
 US 1997-880855 19970623
 DT Patent
 LA English
 OS 1998-594578 [50]
 DESC Murine ***osteoprotegerin*** ***binding*** ***protein*** PCR primer 1602-61.

L2 ANSWER 41 OF 128 DGENE COPYRIGHT 2005 The Thomson Corp on STN
 AN AAV70298 DNA DGENE
 TI Nucleic acid encoding osteoprotegrin binding protein - useful for, e.g. treating bone diseases by modulating osteoclast differentiation and for diagnosis
 IN Boyle W J
 PA (AMGE-N) AMGEN INC.
 PI WO 9846751 A1 19981022 47
 AI WO 1998-US7584 19980415
 PRAI US 1998-52521 19980330
 US 1997-842842 19970416
 US 1997-880855 19970623
 DT Patent
 LA English
 OS 1998-594578 [50]
 DESC Murine ***osteoprotegerin*** ***binding*** ***protein*** PCR primer 1581-74.

L2 ANSWER 42 OF 128 DGENE COPYRIGHT 2005 The Thomson Corp on STN
 AN AAV70297 DNA DGENE
 TI Nucleic acid encoding osteoprotegrin binding protein - useful for, e.g. treating bone diseases by modulating osteoclast differentiation and for diagnosis
 IN Boyle W J
 PA (AMGE-N) AMGEN INC.
 PI WO 9846751 A1 19981022 47
 AI WO 1998-US7584 19980415
 PRAI US 1998-52521 19980330
 US 1997-842842 19970416
 US 1997-880855 19970623
 DT Patent
 LA English
 OS 1998-594578 [50]
 DESC Murine ***osteoprotegerin*** ***binding*** ***protein*** PCR primer 1581-75.

L2 ANSWER 43 OF 128 DGENE COPYRIGHT 2005 The Thomson Corp on STN
 AN AAV70296 DNA DGENE
 TI Nucleic acid encoding osteoprotegrin binding protein - useful for, e.g. treating bone diseases by modulating osteoclast differentiation and for diagnosis
 IN Boyle W J
 PA (AMGE-N) AMGEN INC.
 PI WO 9846751 A1 19981022 47
 AI WO 1998-US7584 19980415
 PRAI US 1998-52521 19980330
 US 1997-842842 19970416
 US 1997-880855 19970623
 DT Patent
 LA English
 OS 1998-594578 [50]
 DESC Murine ***osteoprotegerin*** ***binding*** ***protein*** PCR primer 1581-73.

L2 ANSWER 44 OF 128 DGENE COPYRIGHT 2005 The Thomson Corp on STN
 AN AAV70295 DNA DGENE
 TI Nucleic acid encoding osteoprotegrin binding protein - useful for, e.g. treating bone diseases by modulating osteoclast differentiation and for diagnosis
 IN Boyle W J
 PA (AMGE-N) AMGEN INC.
 PI WO 9846751 A1 19981022 47
 AI WO 1998-US7584 19980415
 PRAI US 1998-52521 19980330
 US 1997-842842 19970416
 US 1997-880855 19970623
 DT Patent
 LA English
 OS 1998-594578 [50]
 DESC Murine ***osteoprotegerin*** ***binding*** ***protein*** PCR primer 1619-86.

L2 ANSWER 45 OF 128 DGENE COPYRIGHT 2005 The Thomson Corp on STN
 AN AAV70294 DNA DGENE
 TI Nucleic acid encoding osteoprotegrin binding protein - useful for, e.g. treating bone diseases by modulating osteoclast differentiation and for diagnosis
 IN Boyle W J
 PA (AMGE-N) AMGEN INC.
 PI WO 9846751 A1 19981022 47
 AI WO 1998-US7584 19980415
 PRAI US 1998-52521 19980330
 US 1997-842842 19970416
 US 1997-880855 19970623
 DT Patent
 LA English
 OS 1998-594578 [50]
 DESC Murine ***osteoprotegerin*** ***binding*** ***protein*** PCR primer 1600-98.

L2 ANSWER 46 OF 128 DGENE COPYRIGHT 2005 The Thomson Corp on STN
 AN AAV70293 DNA DGENE
 TI Nucleic acid encoding osteoprotegrin binding protein - useful for, e.g. treating bone diseases by modulating osteoclast differentiation and for diagnosis
 IN Boyle W J
 PA (AMGE-N) AMGEN INC.
 PI WO 9846751 A1 19981022 47
 AI WO 1998-US7584 19980415
 PRAI US 1998-52521 19980330
 US 1997-842842 19970416
 US 1997-880855 19970623
 DT Patent
 LA English
 OS 1998-594578 [50]
 DESC Murine ***osteoprotegerin*** ***binding*** ***protein*** PCR primer 1591-92.

L2 ANSWER 47 OF 128 DGENE COPYRIGHT 2005 The Thomson Corp on STN
 AN AAV70292 DNA DGENE
 TI Nucleic acid encoding osteoprotegrin binding protein - useful for, e.g. treating bone diseases by modulating osteoclast differentiation and for diagnosis
 IN Boyle W J
 PA (AMGE-N) AMGEN INC.
 PI WO 9846751 A1 19981022 47
 AI WO 1998-US7584 19980415
 PRAI US 1998-52521 19980330
 US 1997-842842 19970416
 US 1997-880855 19970623
 DT Patent
 LA English
 OS 1998-594578 [50]
 DESC Murine ***osteoprotegerin*** ***binding*** ***protein*** PCR primer 1591-91.

L2 ANSWER 48 OF 128 DGENE COPYRIGHT 2005 The Thomson Corp on STN
 AN AAV70291 DNA DGENE
 TI Nucleic acid encoding osteoprotegrin binding protein - useful for, e.g. treating bone diseases by modulating osteoclast differentiation and for diagnosis
 IN Boyle W J
 PA (AMGE-N) AMGEN INC.
 PI WO 9846751 A1 19981022 47
 AI WO 1998-US7584 19980415
 PRAI US 1998-52521 19980330
 US 1997-842842 19970416
 US 1997-880855 19970623
 DT Patent
 LA English
 OS 1998-594578 [50]
 DESC Murine ***osteoprotegerin*** ***binding*** ***protein*** PCR primer 1591-94.

L2 ANSWER 49 OF 128 DGENE COPYRIGHT 2005 The Thomson Corp on STN
 AN AAV70290 DNA DGENE
 TI Nucleic acid encoding osteoprotegrin binding protein - useful for, e.g. treating bone diseases by modulating osteoclast differentiation and for diagnosis
 IN Boyle W J
 PA (AMGE-N) AMGEN INC.
 PI WO 9846751 A1 19981022 47
 AI WO 1998-US7584 19980415
 PRAI US 1998-52521 19980330
 US 1997-842842 19970416
 US 1997-880855 19970623
 DT Patent
 LA English
 OS 1998-594578 [50]
 DESC Murine ***osteoprotegerin*** ***binding*** ***protein*** PCR primer 1591-93.

L2 ANSWER 50 OF 128 DGENE COPYRIGHT 2005 The Thomson Corp on STN
 AN AAV70289 DNA DGENE
 TI Nucleic acid encoding osteoprotegrin binding protein - useful for, e.g. treating bone diseases by modulating osteoclast differentiation and for diagnosis
 IN Boyle W J
 PA (AMGE-N) AMGEN INC.
 PI WO 9846751 A1 19981022 47
 AI WO 1998-US7584 19980415
 PRAI US 1998-52521 19980330
 US 1997-842842 19970416
 US 1997-880855 19970623
 DT Patent
 LA English
 OS 1998-594578 [50]
 DESC Murine ***osteoprotegerin*** ***binding*** ***protein*** PCR primer 1591-95.

L2 ANSWER 51 OF 128 DGENE COPYRIGHT 2005 The Thomson Corp on STN
 AN AAV70288 DNA DGENE
 TI Nucleic acid encoding osteoprotegrin binding protein - useful for, e.g. treating bone diseases by modulating osteoclast differentiation and for diagnosis
 IN Boyle W J
 PA (AMGE-N) AMGEN INC.
 PI WO 9846751 A1 19981022 47
 AI WO 1998-US7584 19980415
 PRAI US 1998-52521 19980330
 US 1997-842842 19970416
 US 1997-880855 19970623
 DT Patent
 LA English
 OS 1998-594578 [50]
 DESC Murine ***osteoprotegerin*** ***binding*** ***protein*** PCR primer 1591-90.

L2 ANSWER 52 OF 128 DGENE COPYRIGHT 2005 The Thomson Corp on STN
 AN AAV70287 DNA DGENE
 TI Nucleic acid encoding osteoprotegrin binding protein - useful for, e.g. treating bone diseases by modulating osteoclast differentiation and for diagnosis
 IN Boyle W J
 PA (AMGE-N) AMGEN INC.
 PI WO 9846751 A1 19981022 47
 AI WO 1998-US7584 19980415
 PRAI US 1998-52521 19980330
 US 1997-842842 19970416
 US 1997-880855 19970623
 DT Patent
 LA English
 OS 1998-594578 [50]
 DESC Murine ***osteoprotegerin*** ***binding*** ***protein*** PCR primer 1581-76.

L2 ANSWER 53 OF 128 DGENE COPYRIGHT 2005 The Thomson Corp on STN
 AN AAV70286 DNA DGENE
 TI Nucleic acid encoding osteoprotegrin binding protein - useful for, e.g. treating bone diseases by modulating osteoclast differentiation and for diagnosis
 IN Boyle W J
 PA (AMGE-N) AMGEN INC.
 PI WO 9846751 A1 19981022 47
 AI WO 1998-US7584 19980415
 PRAI US 1998-52521 19980330
 US 1997-842842 19970416
 US 1997-880855 19970623
 DT Patent
 LA English
 OS 1998-594578 [50]
 DESC Murine ***osteoprotegerin*** ***binding*** ***protein*** PCR primer 1581-72.

L2 ANSWER 54 OF 128 DGENE COPYRIGHT 2005 The Thomson Corp on STN
 AN AAV70285 DNA DGENE
 TI Nucleic acid encoding osteoprotegrin binding protein - useful for, e.g. treating bone diseases by modulating osteoclast differentiation and for diagnosis
 IN Boyle W J
 PA (AMGE-N) AMGEN INC.
 PI WO 9846751 A1 19981022 47
 AI WO 1998-US7584 19980415
 PRAI US 1998-52521 19980330
 US 1997-842842 19970416
 US 1997-880855 19970623
 DT Patent
 LA English
 OS 1998-594578 [50]
 CR P-PSDB: AAW83195
 DESC Human ***osteoprotegerin*** ***binding*** ***protein*** from the pcDNA/huOPGbp1.linsert.

L2 ANSWER 55 OF 128 DGENE COPYRIGHT 2005 The Thomson Corp on STN
 AN AAV70284 DNA DGENE
 TI Nucleic acid encoding osteoprotegrin binding protein - useful for, e.g. treating bone diseases by modulating osteoclast differentiation and for diagnosis
 IN Boyle W J
 PA (AMGE-N) AMGEN INC.
 PI WO 9846751 A1 19981022 47
 AI WO 1998-US7584 19980415
 PRAI US 1998-52521 19980330
 US 1997-842842 19970416
 US 1997-880855 19970623
 DT Patent
 LA English
 OS 1998-594578 [50]
 CR P-PSDB: AAW83194
 DESC Human ***osteoprotegerin*** ***binding*** ***protein*** encoding DNA from the 32D-F3 ins.

L2 ANSWER 56 OF 128 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX232668 GenBank (R)
 GenBank ACC. NO. (GBN): AX232668
 GenBank VERSION (VER): AX232668.1 GI:15592662
 CAS REGISTRY NO. (RN): 357143-84-1
 SEQUENCE LENGTH (SQL): 23
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 154 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence
 NUCLEIC ACID COUNT (NA): 4 a 9 c 5 g 5 t
 REFERENCE: 1 (bases 1 to 23)
 AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 154 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..23	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):

1 ccgggcgcgc cttattaaca ctc

L2 ANSWER 57 OF 128 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX232667 GenBank (R)

GenBank ACC. NO. (GBN): AX232667
 GenBank VERSION (VER): AX232667.1 GI:15592661
 CAS REGISTRY NO. (RN): 357143-83-0
 SEQUENCE LENGTH (SQL): 51
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 153 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence
 NUCLEIC ACID COUNT (NA): 8 a 16 c 20 g 7 t
 REFERENCE: 1 (bases 1 to 51)
 AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 153 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..51	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):
 1 ccggtcaaca cactacgtac gtgtgcggcg gcgcgggcgt tcggccaagg g

L2 ANSWER 58 OF 128 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX232666 GenBank (R)
 GenBank ACC. NO. (GBN): AX232666
 GenBank VERSION (VER): AX232666.1 GI:15592660
 CAS REGISTRY NO. (RN): 382255-02-9
 SEQUENCE LENGTH (SQL): 48
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 152 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence
 NUCLEIC ACID COUNT (NA): 6 a 13 c 16 g 13 t
 REFERENCE: 1 (bases 1 to 48)
 AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 152 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..48	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):
 1 ccgctcagct cctggggctc ctgctattgt gggtgagagg tgccagat

L2 ANSWER 59 OF 128 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX232665 GenBank (R)
 GenBank ACC. NO. (GBN): AX232665
 GenBank VERSION (VER): AX232665.1 GI:15592659
 CAS REGISTRY NO. (RN): 357143-82-9
 SEQUENCE LENGTH (SQL): 40
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 151 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct

artificial sequence
 NUCLEIC ACID COUNT (NA): 7 a 7 c 17 g 9 t
 REFERENCE: 1 (bases 1 to 40)
 AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 151 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..40	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):

1 gtggttgaga ggtgccagat gtcaggtcca gctggtgcag

L2 ANSWER 60 OF 128 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX232664 GenBank (R)
 GenBank ACC. NO. (GBN): AX232664
 GenBank VERSION (VER): AX232664.1 GI:15592658
 CAS REGISTRY NO. (RN): 357143-81-8
 SEQUENCE LENGTH (SQL): 53
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 150 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence
 NUCLEIC ACID COUNT (NA): 12 a 8 c 17 g 16 t
 REFERENCE: 1 (bases 1 to 53)
 AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 150 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..53	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):

1 gtgtattact gtgcgagaga tgccgcagct atggttcggg gaattattat agc

L2 ANSWER 61 OF 128 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX232663 GenBank (R)
 GenBank ACC. NO. (GBN): AX232663
 GenBank VERSION (VER): AX232663.1 GI:15592657
 CAS REGISTRY NO. (RN): 357143-80-7
 SEQUENCE LENGTH (SQL): 53
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 149 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence
 NUCLEIC ACID COUNT (NA): 12 a 8 c 16 g 17 t
 REFERENCE: 1 (bases 1 to 53)
 AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 149 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..53	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):
1 gtgtattact gtgcgagaga ttccgcagct atggttcggg gaattattat agc

L2 ANSWER 62 OF 128 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX232662 GenBank (R)
 GenBank ACC. NO. (GBN): AX232662
 GenBank VERSION (VER): AX232662.1 GI:15592656
 CAS REGISTRY NO. (RN): 357143-79-4
 SEQUENCE LENGTH (SQL): 53
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 148 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence

NUCLEIC ACID COUNT (NA): 12 a 8 c 16 g 17 t

REFERENCE: 1 (bases 1 to 53)
 AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein

JOURNAL (SO): Patent: WO 0162932-A 148 30-AUG-2001; Amgen Inc. (US)

Feature Key	Location	Qualifier
source	1..53	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):
1 gtgtattact gtgcgagaga tgcctcagct atggttcggg gaattattat agc

L2 ANSWER 63 OF 128 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX232661 GenBank (R)
 GenBank ACC. NO. (GBN): AX232661
 GenBank VERSION (VER): AX232661.1 GI:15592655
 CAS REGISTRY NO. (RN): 357143-78-3
 SEQUENCE LENGTH (SQL): 48
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 147 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence

NUCLEIC ACID COUNT (NA): 12 a 6 c 15 g 15 t

REFERENCE: 1 (bases 1 to 48)
 AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein

JOURNAL (SO): Patent: WO 0162932-A 147 30-AUG-2001; Amgen Inc. (US)

Feature Key	Location	Qualifier
source	1..48	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):
1 gtgtattact gtgcgagaga tgccgcaa atggttcggg gaattatt

L2 ANSWER 64 OF 128 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX232660 GenBank (R)
 GenBank ACC. NO. (GBN): AX232660
 GenBank VERSION (VER): AX232660.1 GI:15592654
 CAS REGISTRY NO. (RN): 382255-01-8
 SEQUENCE LENGTH (SQL): 30
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 146 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence
 NUCLEIC ACID COUNT (NA): 7 a 5 c 14 g 4 t
 REFERENCE: 1 (bases 1 to 30)
 AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 146 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..30	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):

1 gtggaggcac tagagacggt gaccaggggtg

L2 ANSWER 65 OF 128 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX232659 GenBank (R)
 GenBank ACC. NO. (GBN): AX232659
 GenBank VERSION (VER): AX232659.1 GI:15592653
 CAS REGISTRY NO. (RN): 357143-77-2
 SEQUENCE LENGTH (SQL): 36
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 145 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence
 NUCLEIC ACID COUNT (NA): 7 a 13 c 8 g 8 t
 REFERENCE: 1 (bases 1 to 36)
 AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 145 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..36	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):

1 cacagccgtg tcttcagatc tcagactgcg cagctc

L2 ANSWER 66 OF 128 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX232658 GenBank (R)
 GenBank ACC. NO. (GBN): AX232658
 GenBank VERSION (VER): AX232658.1 GI:15592652
 CAS REGISTRY NO. (RN): 357143-76-1
 SEQUENCE LENGTH (SQL): 52
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 144 from Patent WO0162932.
 SOURCE: synthetic construct.

ORGANISM (ORGN): synthetic construct
artificial sequence

NUCLEIC ACID COUNT (NA): 12 a 17 c 15 g 8 t

REFERENCE: 1 (bases 1 to 52)

AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.

TITLE (TI): Antagonistic selective binding agents of
osteoprotegerin ***binding***
protein

JOURNAL (SO): Patent: WO 0162932-A 144 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..52	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):

1 cagcagaagc ttagaccacc atggacatga ggggtccccgc tcagctcctg gg

L2 ANSWER 67 OF 128 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX232657 GenBank (R)

GenBank ACC. NO. (GBN): AX232657

GenBank VERSION (VER): AX232657.1 GI:15592651

CAS REGISTRY NO. (RN): 382255-00-7

SEQUENCE LENGTH (SQL): 42

MOLECULE TYPE (CI): DNA; linear

DIVISION CODE (CI): Patent

DATE (DATE): 11 Sep 2001

DEFINITION (DEF): Sequence 143 from Patent WO0162932.

SOURCE: synthetic construct.

ORGANISM (ORGN): synthetic construct
artificial sequence

NUCLEIC ACID COUNT (NA): 11 a 7 c 13 g 11 t

REFERENCE: 1 (bases 1 to 42)

AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.

TITLE (TI): Antagonistic selective binding agents of
osteoprotegerin ***binding***
protein

JOURNAL (SO): Patent: WO 0162932-A 143 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..42	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):

1 agtctgagat ctgaagacac ggctgtgtat tactgtgcga ga

L2 ANSWER 68 OF 128 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX232656 GenBank (R)

GenBank ACC. NO. (GBN): AX232656

GenBank VERSION (VER): AX232656.1 GI:15592650

CAS REGISTRY NO. (RN): 357143-75-0

SEQUENCE LENGTH (SQL): 41

MOLECULE TYPE (CI): DNA; linear

DIVISION CODE (CI): Patent

DATE (DATE): 11 Sep 2001

DEFINITION (DEF): Sequence 142 from Patent WO0162932.

SOURCE: synthetic construct.

ORGANISM (ORGN): synthetic construct
artificial sequence

NUCLEIC ACID COUNT (NA): 14 a 13 c 5 g 9 t

REFERENCE: 1 (bases 1 to 41)

AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.

TITLE (TI): Antagonistic selective binding agents of
osteoprotegerin ***binding***
protein

JOURNAL (SO): Patent: WO 0162932-A 142 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..41	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):

1 aataattccc cgaaccatca cattgaggaa tctctcgac a

L2 ANSWER 69 OF 128 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX232655 GenBank (R)

GenBank ACC. NO. (GBN): AX232655

GenBank VERSION (VER): AX232655.1 GI:15592649

CAS REGISTRY NO. (RN): 357143-74-9

SEQUENCE LENGTH (SQL): 41

MOLECULE TYPE (CI): DNA; linear

DIVISION CODE (CI): Patent

DATE (DATE): 11 Sep 2001

DEFINITION (DEF): Sequence 141 from Patent WO0162932.

SOURCE: synthetic construct.

ORGANISM (ORGN): synthetic construct

artificial sequence

NUCLEIC ACID COUNT (NA): 12 a 13 c 6 g 10 t

REFERENCE: 1 (bases 1 to 41)

AUTHOR (AU): Deshpande, R.V.; Hitz, A.; Boyle, W.J.; Sullivan, J.K.

TITLE (TI): Antagonistic selective binding agents of
osteoprotegerin ***binding***
protein

JOURNAL (SO): Patent: WO 0162932-A 141 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..41	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):

1 aataattccc cgaaccatct cggtgaggaa tctctcgac a

L2 ANSWER 70 OF 128 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX232654 GenBank (R)

GenBank ACC. NO. (GBN): AX232654

GenBank VERSION (VER): AX232654.1 GI:15592648

CAS REGISTRY NO. (RN): 357143-73-8

SEQUENCE LENGTH (SQL): 43

MOLECULE TYPE (CI): DNA; linear

DIVISION CODE (CI): Patent

DATE (DATE): 11 Sep 2001

DEFINITION (DEF): Sequence 140 from Patent WO0162932.

SOURCE: synthetic construct.

ORGANISM (ORGN): synthetic construct

artificial sequence

NUCLEIC ACID COUNT (NA): 13 a 13 c 8 g 9 t

REFERENCE: 1 (bases 1 to 43)

AUTHOR (AU): Deshpande, R.V.; Hitz, A.; Boyle, W.J.; Sullivan, J.K.

TITLE (TI): Antagonistic selective binding agents of
osteoprotegerin ***binding***
protein

JOURNAL (SO): Patent: WO 0162932-A 140 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..43	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):

1 aataattccc cgaaccatgc gacgttgagg aatctctcgc aca

L2 ANSWER 71 OF 128 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX232653 GenBank (R)
 GenBank ACC. NO. (GBN): AX232653
 GenBank VERSION (VER): AX232653.1 GI:15592647
 CAS REGISTRY NO. (RN): 357143-72-7
 SEQUENCE LENGTH (SQL): 43
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 139 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence
 NUCLEIC ACID COUNT (NA): 14 a 12 c 7 g 10 t
 REFERENCE: 1 (bases 1 to 43)
 AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 139 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..43	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):
 1 aataattccc cgaaccatga tacgttgagg aatctctcgc aca

L2 ANSWER 72 OF 128 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX232652 GenBank (R)
 GenBank ACC. NO. (GBN): AX232652
 GenBank VERSION (VER): AX232652.1 GI:15592646
 CAS REGISTRY NO. (RN): 357143-71-6
 SEQUENCE LENGTH (SQL): 44
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 138 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence
 NUCLEIC ACID COUNT (NA): 15 a 13 c 5 g 11 t
 REFERENCE: 1 (bases 1 to 44)
 AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 138 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..44	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):
 1 aataattccc cgaaccatat tcacatggaa tctctcgcac agta

L2 ANSWER 73 OF 128 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX232651 GenBank (R)
 GenBank ACC. NO. (GBN): AX232651
 GenBank VERSION (VER): AX232651.1 GI:15592645
 CAS REGISTRY NO. (RN): 357143-70-5
 SEQUENCE LENGTH (SQL): 44
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 137 from Patent WO0162932.

SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence
 NUCLEIC ACID COUNT (NA): 13 a 13 c 6 g 12 t
 REFERENCE: 1 (bases 1 to 44)
 AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 137 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..44	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):
 1 aataattccc cgaaccatat tctcgtggaa tctctcgac agta

L2 ANSWER 74 OF 128 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX232650 GenBank (R)
 GenBank ACC. NO. (GBN): AX232650
 GenBank VERSION (VER): AX232650.1 GI:15592644
 CAS REGISTRY NO. (RN): 357143-69-2
 SEQUENCE LENGTH (SQL): 46
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 136 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence
 NUCLEIC ACID COUNT (NA): 14 a 13 c 8 g 11 t
 REFERENCE: 1 (bases 1 to 46)
 AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 136 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..46	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):
 1 aataattccc cgaaccatat tgcgacgtgg aatctctcgc acagta

L2 ANSWER 75 OF 128 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX232649 GenBank (R)
 GenBank ACC. NO. (GBN): AX232649
 GenBank VERSION (VER): AX232649.1 GI:15592643
 CAS REGISTRY NO. (RN): 357143-68-1
 SEQUENCE LENGTH (SQL): 46
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 135 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence
 NUCLEIC ACID COUNT (NA): 15 a 12 c 7 g 12 t
 REFERENCE: 1 (bases 1 to 46)
 AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 135 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..46	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):

1 aataattccc cgaaccatat tgatacgtgg aatctctcgc acagta

L2 ANSWER 76 OF 128 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX232648 GenBank (R)
 GenBank ACC. NO. (GBN): AX232648
 GenBank VERSION (VER): AX232648.1 GI:15592642
 CAS REGISTRY NO. (RN): 357143-67-0
 SEQUENCE LENGTH (SQL): 44
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 134 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence
 NUCLEIC ACID COUNT (NA): 15 a 13 c 4 g 12 t
 REFERENCE: 1 (bases 1 to 44)
 AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 134 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..44	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):

1 aataattccc cgaaccatat ttgacacata tctctcgcac agta

L2 ANSWER 77 OF 128 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX232647 GenBank (R)
 GenBank ACC. NO. (GBN): AX232647
 GenBank VERSION (VER): AX232647.1 GI:15592641
 CAS REGISTRY NO. (RN): 357143-66-9
 SEQUENCE LENGTH (SQL): 44
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 133 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence
 NUCLEIC ACID COUNT (NA): 13 a 13 c 5 g 13 t
 REFERENCE: 1 (bases 1 to 44)
 AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 133 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..44	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):

1 aataattccc cgaaccatat ttgactcgta tctctcgcac agta

LOCUS (LOC): AX232646 GenBank (R)
 GenBank ACC. NO. (GBN): AX232646
 GenBank VERSION (VER): AX232646.1 GI:15592640
 CAS REGISTRY NO. (RN): 357143-65-8
 SEQUENCE LENGTH (SQL): 46
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 132 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence
 NUCLEIC ACID COUNT (NA): 14 a 13 c 7 g 12 t
 REFERENCE: 1 (bases 1 to 46)
 AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 132 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..46	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):

1 aataattccc cgaaccatat ttgagcgacg tatctctcgc acagta

LOCUS (LOC): AX232645 GenBank (R)
 GenBank ACC. NO. (GBN): AX232645
 GenBank VERSION (VER): AX232645.1 GI:15592639
 CAS REGISTRY NO. (RN): 357143-64-7
 SEQUENCE LENGTH (SQL): 46
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 131 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence
 NUCLEIC ACID COUNT (NA): 15 a 12 c 6 g 13 t
 REFERENCE: 1 (bases 1 to 46)
 AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 131 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..46	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):

1 aataattccc cgaaccatat ttgagatacg tatctctcgc acagta

LOCUS (LOC): AX232644 GenBank (R)
 GenBank ACC. NO. (GBN): AX232644
 GenBank VERSION (VER): AX232644.1 GI:15592638
 CAS REGISTRY NO. (RN): 382254-99-1
 SEQUENCE LENGTH (SQL): 36
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001

DEFINITION (DEF): Sequence 130 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence
 NUCLEIC ACID COUNT (NA): 14 a 8 c 5 g 9 t
 REFERENCE: 1 (bases 1 to 36)
 AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 130 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..36	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):
 1 gtagtcaaaa tagtagcgcta taataattcc ccgaac

L2 ANSWER 81 OF 128 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX232643 GenBank (R)
 GenBank ACC. NO. (GBN): AX232643
 GenBank VERSION (VER): AX232643.1 GI:15592637
 CAS REGISTRY NO. (RN): 382254-98-0
 SEQUENCE LENGTH (SQL): 36
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 129 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence
 NUCLEIC ACID COUNT (NA): 9 a 11 c 10 g 6 t
 REFERENCE: 1 (bases 1 to 36)
 AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 129 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..36	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):
 1 cagggtgccc tggccccagt agtcaaaata gtacgc

L2 ANSWER 82 OF 128 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX232642 GenBank (R)
 GenBank ACC. NO. (GBN): AX232642
 GenBank VERSION (VER): AX232642.1 GI:15592636
 CAS REGISTRY NO. (RN): 357143-63-6
 SEQUENCE LENGTH (SQL): 32
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 128 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence
 NUCLEIC ACID COUNT (NA): 5 a 11 c 11 g 5 t
 REFERENCE: 1 (bases 1 to 32)
 AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein

JOURNAL (SO): Patent: WO 0162932-A 128 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..32	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):

1 cttgagacgg tgaccagggg gccctggccc ca

L2 ANSWER 83 OF 128 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX232641 GenBank (R)
GenBank ACC. NO. (GBN): AX232641
GenBank VERSION (VER): AX232641.1 GI:15592635
CAS REGISTRY NO. (RN): 382254-97-9
SEQUENCE LENGTH (SQL): 39
MOLECULE TYPE (CI): DNA; linear
DIVISION CODE (CI): Patent
DATE (DATE): 11 Sep 2001
DEFINITION (DEF): Sequence 127 from Patent WO0162932.
SOURCE: synthetic construct.
ORGANISM (ORGN): synthetic construct
artificial sequence
NUCLEIC ACID COUNT (NA): 12 a 5 c 10 g 12 t
REFERENCE: 1 (bases 1 to 39)
AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
TITLE (TI): Antagonistic selective binding agents of
osteoprotegerin ***binding***
protein
JOURNAL (SO): Patent: WO 0162932-A 127 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..39	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):

1 agagattcct caaatatggg tcggggaatt attatagcg

L2 ANSWER 84 OF 128 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX232640 GenBank (R)
GenBank ACC. NO. (GBN): AX232640
GenBank VERSION (VER): AX232640.1 GI:15592634
CAS REGISTRY NO. (RN): 382254-96-8
SEQUENCE LENGTH (SQL): 33
MOLECULE TYPE (CI): DNA; linear
DIVISION CODE (CI): Patent
DATE (DATE): 11 Sep 2001
DEFINITION (DEF): Sequence 126 from Patent WO0162932.
SOURCE: synthetic construct.
ORGANISM (ORGN): synthetic construct
artificial sequence
NUCLEIC ACID COUNT (NA): 9 a 5 c 8 g 11 t
REFERENCE: 1 (bases 1 to 33)
AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
TITLE (TI): Antagonistic selective binding agents of
osteoprotegerin ***binding***
protein
JOURNAL (SO): Patent: WO 0162932-A 126 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..33	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):

1 gtgtattact gtgcgagaga ttcctcaa atg

LOCUS (LOC): AX232639 GenBank (R)
 GenBank ACC. NO. (GBN): AX232639
 GenBank VERSION (VER): AX232639.1 GI:15592633
 CAS REGISTRY NO. (RN): 357143-62-5
 SEQUENCE LENGTH (SQL): 42
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 125 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence
 NUCLEIC ACID COUNT (NA): 11 a 7 c 13 g 11 t
 REFERENCE: 1 (bases 1 to 42)
 AUTHOR (AU): Deshpande, R.V.; Hitz, A.; Boyle, W.J.; Sullivan, J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 125 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..42	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):

1 agtctgagat ctgaagacac ggctgtgtat tactgtgcga ga

LOCUS (LOC): AX232638 GenBank (R)
 GenBank ACC. NO. (GBN): AX232638
 GenBank VERSION (VER): AX232638.1 GI:15592632
 CAS REGISTRY NO. (RN): 357143-61-4
 SEQUENCE LENGTH (SQL): 39
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 124 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence
 NUCLEIC ACID COUNT (NA): 9 a 12 c 11 g 7 t
 REFERENCE: 1 (bases 1 to 39)
 AUTHOR (AU): Deshpande, R.V.; Hitz, A.; Boyle, W.J.; Sullivan, J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 124 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..39	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):

1 cagggtgccc tggccccagg cgtcaaaata gtacgctat

LOCUS (LOC): AX232637 GenBank (R)
 GenBank ACC. NO. (GBN): AX232637
 GenBank VERSION (VER): AX232637.1 GI:15592631
 CAS REGISTRY NO. (RN): 357143-60-3
 SEQUENCE LENGTH (SQL): 39
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent

DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 123 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence
 NUCLEIC ACID COUNT (NA): 10 a 11 c 11 g 7 t
 REFERENCE: 1 (bases 1 to 39)
 AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 123 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..39	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):
 1 caggggtgccc tggccccagt aggcaaaata gtacgctat

L2 ANSWER 88 OF 128 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX232636 GenBank (R)
 GenBank ACC. NO. (GBN): AX232636
 GenBank VERSION (VER): AX232636.1 GI:15592630
 CAS REGISTRY NO. (RN): 357143-59-0
 SEQUENCE LENGTH (SQL): 42
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 122 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence
 NUCLEIC ACID COUNT (NA): 10 a 12 c 11 g 9 t
 REFERENCE: 1 (bases 1 to 42)
 AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 122 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..42	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):
 1 caggggtgccc tggccccagt agtcagcata gtacgctata at

L2 ANSWER 89 OF 128 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX232635 GenBank (R)
 GenBank ACC. NO. (GBN): AX232635
 GenBank VERSION (VER): AX232635.1 GI:15592629
 CAS REGISTRY NO. (RN): 357143-58-9
 SEQUENCE LENGTH (SQL): 45
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 121 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence
 NUCLEIC ACID COUNT (NA): 12 a 13 c 10 g 10 t
 REFERENCE: 1 (bases 1 to 45)
 AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***

protein

JOURNAL (SO): Patent: WO 0162932-A 121 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..45	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):

1 ggtgccctgg cccagtagt caaaagcgta cgctataata attcc

L2 ANSWER 90 OF 128 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX232634 GenBank (R)

GenBank ACC. NO. (GBN): AX232634

GenBank VERSION (VER): AX232634.1 GI:15592628

CAS REGISTRY NO. (RN): 357143-57-8

SEQUENCE LENGTH (SQL): 45

MOLECULE TYPE (CI): DNA; linear

DIVISION CODE (CI): Patent

DATE (DATE): 11 Sep 2001

DEFINITION (DEF): Sequence 120 from Patent WO0162932.

SOURCE: synthetic construct.

ORGANISM (ORGN): synthetic construct

artificial sequence

NUCLEIC ACID COUNT (NA): 12 a 13 c 10 g 10 t

REFERENCE: 1 (bases 1 to 45)

AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.

TITLE (TI): Antagonistic selective binding agents of
osteoprotegerin ***binding***
protein

JOURNAL (SO): Patent: WO 0162932-A 120 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..45	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):

1 ggtgccctgg cccagtagt caaaataggc cgctataata attcc

L2 ANSWER 91 OF 128 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX232633 GenBank (R)

GenBank ACC. NO. (GBN): AX232633

GenBank VERSION (VER): AX232633.1 GI:15592627

CAS REGISTRY NO. (RN): 357143-56-7

SEQUENCE LENGTH (SQL): 36

MOLECULE TYPE (CI): DNA; linear

DIVISION CODE (CI): Patent

DATE (DATE): 11 Sep 2001

DEFINITION (DEF): Sequence 119 from Patent WO0162932.

SOURCE: synthetic construct.

ORGANISM (ORGN): synthetic construct

artificial sequence

NUCLEIC ACID COUNT (NA): 13 a 9 c 6 g 8 t

REFERENCE: 1 (bases 1 to 36)

AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.

TITLE (TI): Antagonistic selective binding agents of
osteoprotegerin ***binding***
protein

JOURNAL (SO): Patent: WO 0162932-A 119 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..36	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):

1 gtagtcaaaa tagtagcgctg caataattcc ccgaac

L2 ANSWER 92 OF 128 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX232632 GenBank (R)
GenBank ACC. NO. (GBN): AX232632
GenBank VERSION (VER): AX232632.1 GI:15592626
CAS REGISTRY NO. (RN): 357143-55-6
SEQUENCE LENGTH (SQL): 39
MOLECULE TYPE (CI): DNA; linear
DIVISION CODE (CI): Patent
DATE (DATE): 11 Sep 2001
DEFINITION (DEF): Sequence 118 from Patent WO0162932.
SOURCE: synthetic construct.
ORGANISM (ORGN): synthetic construct
artificial sequence
NUCLEIC ACID COUNT (NA): 13 a 10 c 7 g 9 t
REFERENCE: 1 (bases 1 to 39)
AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
TITLE (TI): Antagonistic selective binding agents of
osteoprotegerin ***binding***
protein
JOURNAL (SO): Patent: WO 0162932-A 118 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..39	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):

1 gtagtcaaaa tagtagcgcta tggcaattcc ccgaacct

L2 ANSWER 93 OF 128 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX232631 GenBank (R)
GenBank ACC. NO. (GBN): AX232631
GenBank VERSION (VER): AX232631.1 GI:15592625
CAS REGISTRY NO. (RN): 357143-54-5
SEQUENCE LENGTH (SQL): 42
MOLECULE TYPE (CI): DNA; linear
DIVISION CODE (CI): Patent
DATE (DATE): 11 Sep 2001
DEFINITION (DEF): Sequence 117 from Patent WO0162932.
SOURCE: synthetic construct.
ORGANISM (ORGN): synthetic construct
artificial sequence
NUCLEIC ACID COUNT (NA): 14 a 10 c 7 g 11 t
REFERENCE: 1 (bases 1 to 42)
AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
TITLE (TI): Antagonistic selective binding agents of
osteoprotegerin ***binding***
protein
JOURNAL (SO): Patent: WO 0162932-A 117 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..42	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):

1 gtagtcaaaa tagtagcgcta taatggctcc ccgaaccata tt

L2 ANSWER 94 OF 128 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX232630 GenBank (R)
GenBank ACC. NO. (GBN): AX232630
GenBank VERSION (VER): AX232630.1 GI:15592624
CAS REGISTRY NO. (RN): 357143-53-4
SEQUENCE LENGTH (SQL): 45
MOLECULE TYPE (CI): DNA; linear

DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 116 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence
 NUCLEIC ACID COUNT (NA): 17 a 8 c 7 g 13 t
 REFERENCE: 1 (bases 1 to 45)
 AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 116 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..45	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):
 1 gtagtcaaaa tagtacgcta taataattgc ccgaaccata tttga

L2 ANSWER 95 OF 128 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX232629 GenBank (R)
 GenBank ACC. NO. (GBN): AX232629
 GenBank VERSION (VER): AX232629.1 GI:15592623
 CAS REGISTRY NO. (RN): 357143-52-3
 SEQUENCE LENGTH (SQL): 38
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 115 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence
 NUCLEIC ACID COUNT (NA): 11 a 6 c 8 g 13 t
 REFERENCE: 1 (bases 1 to 38)
 AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 115 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..38	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):
 1 gattcctcaa atatggttgc cggaattatt atagcgta

L2 ANSWER 96 OF 128 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX232628 GenBank (R)
 GenBank ACC. NO. (GBN): AX232628
 GenBank VERSION (VER): AX232628.1 GI:15592622
 CAS REGISTRY NO. (RN): 357143-51-2
 SEQUENCE LENGTH (SQL): 36
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 114 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence
 NUCLEIC ACID COUNT (NA): 10 a 6 c 9 g 11 t
 REFERENCE: 1 (bases 1 to 36)
 AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
 TITLE (TI): Antagonistic selective binding agents of

osteoprotegerin ***binding***
protein

JOURNAL (SO): Patent: WO 0162932-A 114 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..36	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):

1 gattcctcaa atatggctcg gggaattatt atagcg

L2 ANSWER 97 OF 128 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX232627 GenBank (R)
GenBank ACC. NO. (GBN): AX232627
GenBank VERSION (VER): AX232627.1 GI:15592621
CAS REGISTRY NO. (RN): 357143-50-1
SEQUENCE LENGTH (SQL): 36
MOLECULE TYPE (CI): DNA; linear
DIVISION CODE (CI): Patent
DATE (DATE): 11 Sep 2001
DEFINITION (DEF): Sequence 113 from Patent WO0162932.
SOURCE: synthetic construct.
ORGANISM (ORGN): synthetic construct
 artificial sequence
NUCLEIC ACID COUNT (NA): 10 a 10 c 7 g 9 t
REFERENCE: 1 (bases 1 to 36)
AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
JOURNAL (SO): Patent: WO 0162932-A 113 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..36	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):

1 aataattccc cgaacggcat ttgaggaatc tctcgc

L2 ANSWER 98 OF 128 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX232626 GenBank (R)
GenBank ACC. NO. (GBN): AX232626
GenBank VERSION (VER): AX232626.1 GI:15592620
CAS REGISTRY NO. (RN): 357143-49-8
SEQUENCE LENGTH (SQL): 39
MOLECULE TYPE (CI): DNA; linear
DIVISION CODE (CI): Patent
DATE (DATE): 11 Sep 2001
DEFINITION (DEF): Sequence 112 from Patent WO0162932.
SOURCE: synthetic construct.
ORGANISM (ORGN): synthetic construct
 artificial sequence
NUCLEIC ACID COUNT (NA): 13 a 12 c 6 g 8 t
REFERENCE: 1 (bases 1 to 39)
AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
JOURNAL (SO): Patent: WO 0162932-A 112 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..39	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):

1 aataattccc cgaaccatag ctgaggaatc tctcgaca

L2 ANSWER 99 OF 128 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX232625 GenBank (R)
 GenBank ACC. NO. (GBN): AX232625
 GenBank VERSION (VER): AX232625.1 GI:15592619
 CAS REGISTRY NO. (RN): 357143-48-7
 SEQUENCE LENGTH (SQL): 42
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 111 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence
 NUCLEIC ACID COUNT (NA): 13 a 12 c 6 g 11 t
 REFERENCE: 1 (bases 1 to 42)
 AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 111 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..42	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):

1 aataattccc cgaaccatat ttgcggaatc tctcgacag ta

L2 ANSWER 100 OF 128 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX232624 GenBank (R)
 GenBank ACC. NO. (GBN): AX232624
 GenBank VERSION (VER): AX232624.1 GI:15592618
 CAS REGISTRY NO. (RN): 357143-47-6
 SEQUENCE LENGTH (SQL): 39
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 110 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence
 NUCLEIC ACID COUNT (NA): 9 a 6 c 12 g 12 t
 REFERENCE: 1 (bases 1 to 39)
 AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 110 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..39	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):

1 gtgtattact gtgcgagaga tgcctcaa atgggttcgg

L2 ANSWER 101 OF 128 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX232623 GenBank (R)
 GenBank ACC. NO. (GBN): AX232623
 GenBank VERSION (VER): AX232623.1 GI:15592617
 CAS REGISTRY NO. (RN): 357143-46-5
 SEQUENCE LENGTH (SQL): 39

MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 109 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence
 NUCLEIC ACID COUNT (NA): 8 a 7 c 11 g 13 t
 REFERENCE: 1 (bases 1 to 39)
 AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 109 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..39	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):
 1 gtgtattact gtgcgagagc ttcctcaa atgtgttcgg

L2 ANSWER 102 OF 128 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX232622 GenBank (R)
 GenBank ACC. NO. (GBN): AX232622
 GenBank VERSION (VER): AX232622.1 GI:15592616
 CAS REGISTRY NO. (RN): 357143-45-4
 SEQUENCE LENGTH (SQL): 36
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 108 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence
 NUCLEIC ACID COUNT (NA): 9 a 11 c 10 g 6 t
 REFERENCE: 1 (bases 1 to 36)
 AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 108 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..36	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):
 1 cagggtgccc tggccccagt agtcaaaata gtacgc

L2 ANSWER 103 OF 128 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX232621 GenBank (R)
 GenBank ACC. NO. (GBN): AX232621
 GenBank VERSION (VER): AX232621.1 GI:15592615
 CAS REGISTRY NO. (RN): 357143-44-3
 SEQUENCE LENGTH (SQL): 33
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 107 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence
 NUCLEIC ACID COUNT (NA): 9 a 5 c 8 g 11 t
 REFERENCE: 1 (bases 1 to 33)
 AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.

TITLE (TI): Antagonistic selective binding agents of
osteoprotegerin ***binding***
protein
JOURNAL (SO): Patent: WO 0162932-A 107 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..33	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):

1 gtgtattact gtgcgagaga ttcctcaaat atg

L2 ANSWER 104 OF 128 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX232620 GenBank (R)
GenBank ACC. NO. (GBN): AX232620
GenBank VERSION (VER): AX232620.1 GI:15592614
CAS REGISTRY NO. (RN): 357143-43-2
SEQUENCE LENGTH (SQL): 36
MOLECULE TYPE (CI): DNA; linear
DIVISION CODE (CI): Patent
DATE (DATE): 11 Sep 2001
DEFINITION (DEF): Sequence 106 from Patent WO0162932.
SOURCE: synthetic construct.
ORGANISM (ORGN): synthetic construct
artificial sequence
NUCLEIC ACID COUNT (NA): 14 a 8 c 5 g 9 t
REFERENCE: 1 (bases 1 to 36)
AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
TITLE (TI): Antagonistic selective binding agents of
osteoprotegerin ***binding***
protein
JOURNAL (SO): Patent: WO 0162932-A 106 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..36	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):

1 gtagtcaaaa tagtagcgcta taataattcc ccgaac

L2 ANSWER 105 OF 128 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX232619 GenBank (R)
GenBank ACC. NO. (GBN): AX232619
GenBank VERSION (VER): AX232619.1 GI:15592613
CAS REGISTRY NO. (RN): 357143-42-1
SEQUENCE LENGTH (SQL): 39
MOLECULE TYPE (CI): DNA; linear
DIVISION CODE (CI): Patent
DATE (DATE): 11 Sep 2001
DEFINITION (DEF): Sequence 105 from Patent WO0162932.
SOURCE: synthetic construct.
ORGANISM (ORGN): synthetic construct
artificial sequence
NUCLEIC ACID COUNT (NA): 12 a 5 c 10 g 12 t
REFERENCE: 1 (bases 1 to 39)
AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
TITLE (TI): Antagonistic selective binding agents of
osteoprotegerin ***binding***
protein
JOURNAL (SO): Patent: WO 0162932-A 105 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..39	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):

1 agagattcct caaatatggt tcggggaatt attatagcg

L2 ANSWER 106 OF 128 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX232617 GenBank (R)
 GenBank ACC. NO. (GBN): AX232617
 GenBank VERSION (VER): AX232617.1 GI:15592612
 CAS REGISTRY NO. (RN): 357143-41-0
 SEQUENCE LENGTH (SQL): 25
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 103 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence
 NUCLEIC ACID COUNT (NA): 3 a 9 c 4 g 9 t
 REFERENCE: 1 (bases 1 to 25)
 AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 103 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..25	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):

1 cctctcctcg agttagtcta tgtcc

L2 ANSWER 107 OF 128 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX232616 GenBank (R)
 GenBank ACC. NO. (GBN): AX232616
 GenBank VERSION (VER): AX232616.1 GI:15592611
 CAS REGISTRY NO. (RN): 357143-40-9
 SEQUENCE LENGTH (SQL): 30
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 102 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence
 NUCLEIC ACID COUNT (NA): 6 a 6 c 8 g 10 t
 REFERENCE: 1 (bases 1 to 30)
 AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 102 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..30	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):

1 ctggctactg aatatcttca gctgatggtg

L2 ANSWER 108 OF 128 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX232615 GenBank (R)
 GenBank ACC. NO. (GBN): AX232615
 GenBank VERSION (VER): AX232615.1 GI:15592610
 CAS REGISTRY NO. (RN): 357143-39-6

SEQUENCE LENGTH (SQL): 30
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 101 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence
 NUCLEIC ACID COUNT (NA): 6 a 7 c 8 g 9 t
 REFERENCE: 1 (bases 1 to 30)
 AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 101 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..30	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):
 1 agtagccagg tctcccgatg tttcatgatg

L2 ANSWER 109 OF 128 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX232614 GenBank (R)
 GenBank ACC. NO. (GBN): AX232614
 GenBank VERSION (VER): AX232614.1 GI:15592609
 CAS REGISTRY NO. (RN): 357143-38-5
 SEQUENCE LENGTH (SQL): 23
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 100 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence
 NUCLEIC ACID COUNT (NA): 7 a 7 c 4 g 5 t
 REFERENCE: 1 (bases 1 to 23)
 AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 100 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..23	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):
 1 cctctcatat ggactacaag gac

L2 ANSWER 110 OF 128 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX232589 GenBank (R)
 GenBank ACC. NO. (GBN): AX232589
 GenBank VERSION (VER): AX232589.1 GI:15592607
 CAS REGISTRY NO. (RN): 391057-99-1
 SEQUENCE LENGTH (SQL): 522
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 75 from Patent WO0162932.
 SOURCE: house mouse.
 ORGANISM (ORGN): Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
 Euteleostomi; Mammalia; Eutheria; Rodentia;
 Sciurognathi; Muridae; Murinae; Mus

NUCLEIC ACID COUNT (NA): 149 a 127 c 117 g 129 t
REFERENCE: 1 (bases 1 to 522)
AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
TITLE (TI): Antagonistic selective binding agents of
osteoprotegerin ***binding***
protein
JOURNAL (SO): Patent: WO 0162932-A 75 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..522	/organism="Mus musculus"
		/db-xref="taxon:10090"
CDS	4..516	/note="unnamed protein product"
		/codon-start=1
		/protein-id="CAC69727.1"
		/db-xref="GI:15592608"
		/translation="MDYKDDDDKKLKPEAQPFah LTINAASIPSGSHKVTLSWYHDR GWAKISNMTLSNGKLRVNQDGFYYLYANICFRHH ETSGDLATEYLQLMVYVVKTSIKI PSSHNLMKGGSTKNWSGNSEFHFYSINVGGFKL RAGEEISIQVSNPSLLDPDQDATY FGAFKVQDID"

SEQUENCE (SEQ):

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241 acatcgggag acctggctac tgaatatctt cagctgatgg tgtatgtcgt taaaaccagc
301 atcaaaatcc caagttctca taacctgatg aaaggaggga gcacgaaaaa ctggtcgggc
361 aattctgaat tccactttta ttccataaat gttgggggat ttttcaagct ccgagctggt
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L2 ANSWER 111 OF 128 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX232572 GenBank (R)
GenBank ACC. NO. (GBN): AX232572
GenBank VERSION (VER): AX232572.1 GI:15592605
CAS REGISTRY NO. (RN): 391057-98-0
SEQUENCE LENGTH (SQL): 681
MOLECULE TYPE (CI): DNA; linear
DIVISION CODE (CI): Patent
DATE (DATE): 11 Sep 2001
DEFINITION (DEF): Sequence 58 from Patent WO0162932.
SOURCE: human.
ORGANISM (ORGN): Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
Hominidae; Homo

NUCLEIC ACID COUNT (NA): 145 a 207 c 194 g 135 t
REFERENCE: 1 (bases 1 to 681)
AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
TITLE (TI): Antagonistic selective binding agents of
osteoprotegerin ***binding***
protein
JOURNAL (SO): Patent: WO 0162932-A 58 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..681	/organism="Homo sapiens"
		/db-xref="taxon:9606"
CDS	<1..>681	/note="unnamed protein product"
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		/protein-id="CAC69726.1"
		/db-xref="GI:15592606"
		/translation="AEVQLLESgggLVQpGRSLR LSCAASGFTFDdYAMHwVRQAPGK GLEWVSGISWNSGRIGYADSVKGRFTISRDNakN"

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SEQUENCE (SEQ) :

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121 gctccaggga agggcctgga gtgggtctca ggtattagtt ggaatagtgg taggataggc
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421 agcacctctg ggggcacagc ggccctgggc tgcctgggtca aggactactt cccgaaccg
481 gtgacgggtg cgtggaactc aggcgcctg accagcggcg tccacacctt cccggctgtc
541 ctacagtctc caggactcta ctccctcagc agcgtagtga ccgtgccctc cagcagcttg
601 ggcacccaga cctacatctg caacgtgaat cacaagccca gcaacaccaa ggtggacaag
661 aaagttgagc ccaaatcttg t

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L2 ANSWER 112 OF 128 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX232570 GenBank (R)
 GenBank ACC. NO. (GBN): AX232570
 GenBank VERSION (VER): AX232570.1 GI:15592603
 CAS REGISTRY NO. (RN): 391057-97-9
 SEQUENCE LENGTH (SQL): 660
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 56 from Patent WO0162932.
 SOURCE: human.
 ORGANISM (ORGN): Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
 Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
 Hominidae; Homo
 NUCLEIC ACID COUNT (NA): 142 a 202 c 184 g 132 t
 REFERENCE: 1 (bases 1 to 660)
 AUTHOR (AU): Deshpande, R.V.; Hitz, A.; Boyle, W.J.; Sullivan, J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 56 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..660	/organism="Homo sapiens" /db-xref="taxon:9606"
CDS	<1..>660	/note="unnamed protein product" /codon-start=1 /protein-id="CAC69725.1" /db-xref="GI:15592604" /translation="AEVQLVQSGGGLVQPGGSLR LSCLVSGFTFNNYPMHVVRQAPGK GLEWVAVISYDGNNKYYADSVKGRFTISRDN SKN TLYLQMNLSRSED TAVYYCARGGG GFDYWGQGTTLVTVSSASTKGPSVFPLAPSSKSTS GGTAALGCLVKDYFPEPVTVSWNS GALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLG TQTYICNVNHKPSNTKVDKKVEPK SC"

SEQUENCE (SEQ) :

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301 ggcgggtggct ttgactactg gggccaggga accctgggtca ccgtctcaag cgctccacc
361 aaggggcccat cggtcttccc cctggcacc tcctccaaga gcacctctgg gggcacagcg
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481 ggcgccttga ccagcggcgt ccacaccttc cgggtgtcc tacagtcctc aggactctac
 541 tccctcagca gcgtagtac cgtgccctcc agcagcttgg gcacccagac ctacatctgc
 601 aacgtgaatc acaagccag caacaccaag gtggacaaga aagttgagcc caaatcttgt

L2 ANSWER 113 OF 128 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX232568 GenBank (R)
 GenBank ACC. NO. (GBN): AX232568
 GenBank VERSION (VER): AX232568.1 GI:15592601
 CAS REGISTRY NO. (RN): 391057-96-8
 SEQUENCE LENGTH (SQL): 690
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 54 from Patent WO0162932.
 SOURCE: human.
 ORGANISM (ORGN): Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
 Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
 Hominidae; Homo
 NUCLEIC ACID COUNT (NA): 156 a 204 c 193 g 137 t
 REFERENCE: 1 (bases 1 to 690)
 AUTHOR (AU): Deshpande, R.V.; Hitz, A.; Boyle, W.J.; Sullivan, J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 54 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..690	/organism="Homo sapiens" /db-xref="taxon:9606"
CDS	<1..>690	/note="unnamed protein product" /codon-start=1 /protein-id="CAC69724.1" /db-xref="GI:15592602" /translation="AEVQLVQSGAEVRKPGASVK VSCKASGYDFSNYAIHWVRQAPGQ RLEWMGWINAGNGNTKFSQKFQGRITVTRDTAAS TAYMELRLRSEDYAVYYCARDSS NMVRGII IAYYFDYWGQGTLTVTSSASTKGPSVF PLAPSSKSTSGGTAALGCLVKDYF PEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSS VVTVPSSSLGTQTYICNVNHKPSN TKVDKKVEPKSC"

SEQUENCE (SEQ):

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 181 ttttcacaga agttccaggg cagaatcacc gttaccaggg acacagccgc gagcacagcc
 241 tacatggagc tgcgcagtct gagatctgaa gacacggctg tgtattactg tgcgagagat
 301 tcctcaaata tggttcgggg aattattata gcgtactatt ttgactactg gggccagggc
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 601 agcagcttgg gcacccagac ctacatctgc aacgtgaatc acaagccag caacaccaag
 661 gtggacaaga aagttgagcc caaatcttgt

L2 ANSWER 114 OF 128 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX232566 GenBank (R)
 GenBank ACC. NO. (GBN): AX232566
 GenBank VERSION (VER): AX232566.1 GI:15592599
 CAS REGISTRY NO. (RN): 391057-95-7
 SEQUENCE LENGTH (SQL): 690
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 52 from Patent WO0162932.

SOURCE: human.
 ORGANISM (ORGN): Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
 Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
 Hominidae; Homo

NUCLEIC ACID COUNT (NA): 156 a 205 c 192 g 137 t

REFERENCE: 1 (bases 1 to 690)
 AUTHOR (AU): Deshpande, R.V.; Hitz, A.; Boyle, W.J.; Sullivan, J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein

JOURNAL (SO): Patent: WO 0162932-A 52 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..690	/organism="Homo sapiens"
		/db-xref="taxon:9606"
CDS	<1..>690	/note="unnamed protein product"
		/codon-start=1
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		/db-xref="GI:15592600"
		/translation="AQVQLVQSGAEVRKPGASVK VSCKASGYDFSNYAIHWVRQAPGQ RLEWMGWINAGNGNTKFSQKFQGRITVTRDTAAS TAYMELRSLRSED TAVYYCARDSS NMVRGIIIIAYYFDYWGQGLVTVSSASTKGPSVF PLAPSSKSTSGGTAALGCLVKDYF PEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSS VVTVPSSSLGTQTYICNVNHKPSN TKVDKKVEPKSC"

SEQUENCE (SEQ):

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661 gtggacaaga aagttgagcc caaatcttgt

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L2 ANSWER 115 OF 128 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX232564 GenBank (R)
 GenBank ACC. NO. (GBN): AX232564
 GenBank VERSION (VER): AX232564.1 GI:15592597
 CAS REGISTRY NO. (RN): 391057-94-6
 SEQUENCE LENGTH (SQL): 654
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 50 from Patent WO0162932.
 SOURCE: human.
 ORGANISM (ORGN): Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
 Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
 Hominidae; Homo

NUCLEIC ACID COUNT (NA): 163 a 189 c 180 g 122 t

REFERENCE: 1 (bases 1 to 654)
 AUTHOR (AU): Deshpande, R.V.; Hitz, A.; Boyle, W.J.; Sullivan, J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein

JOURNAL (SO): Patent: WO 0162932-A 50 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
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                        /db-xref="taxon:9606"
CDS          <1..>654   /note="unnamed protein product"
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                        /db-xref="GI:15592598"
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FGGGTKLTVLSQPKAAPSVTLFPPSSEELQANKA
TLVCLISDFYPGAVTVAWKADSSP
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SEQUENCE (SEQ):

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541 agcagctatc tgagcctgac gcctgagcag tggaagtccc acagaagcta cagctgccag
601 gtcacgcatg aaggggagcag cgtggagaag acagtggccc ctacagaatg ttca

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L2 ANSWER 116 OF 128 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX232562 GenBank (R)
 GenBank ACC. NO. (GBN): AX232562
 GenBank VERSION (VER): AX232562.1 GI:15592595
 CAS REGISTRY NO. (RN): 391057-93-5
 SEQUENCE LENGTH (SQL): 645
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 48 from Patent WO0162932.
 SOURCE: human.
 ORGANISM (ORGN): Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
 Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
 Hominidae; Homo

NUCLEIC ACID COUNT (NA): 163 a 182 c 171 g 129 t

REFERENCE: 1 (bases 1 to 645)
 AUTHOR (AU): Deshpande, R.V.; Hitz, A.; Boyle, W.J.; Sullivan, J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein

JOURNAL (SO): Patent: WO 0162932-A 48 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..645	/organism="Homo sapiens"
		/db-xref="taxon:9606"
CDS	<1..>645	/note="unnamed protein product"
		/codon-start=1
		/protein-id="CAC69721.1"
		/db-xref="GI:15592596"
		/translation="HSALEIVMTQSPGTLSSLSPG ERATLSCRASQSVSSSSLAWYQQK PGQAPRLLIYGASSRATGIPDRFSGSGSGTDFTL TISRLEPEDFAVYYCQYGAFGGG TKVEIKRTVAAPSVFIFPPSDEQLKSGTASVVC LNNFYPREAKVQWKVDNALQSGNS QESVTEQDSKSTYLSSTLTLSKADYEKHKVYA CEVTHQGLNSPVTKSFNRGEC"

SEQUENCE (SEQ):

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541 acgctgagca aagcagacta cgagaaacac aaagtctacg cctgcgaagt caccatcag
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L2 ANSWER 117 OF 128 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX232560 GenBank (R)
 GenBank ACC. NO. (GBN): AX232560
 GenBank VERSION (VER): AX232560.1 GI:15592593
 CAS REGISTRY NO. (RN): 391057-92-4
 SEQUENCE LENGTH (SQL): 645
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 46 from Patent WO0162932.
 SOURCE: human.
 ORGANISM (ORGN): Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
 Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
 Hominidae; Homo
 NUCLEIC ACID COUNT (NA): 163 a 188 c 162 g 132 t
 REFERENCE: 1 (bases 1 to 645)
 AUTHOR (AU): Deshpande, R.V.; Hitz, A.; Boyle, W.J.; Sullivan, J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 46 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..645	/organism="Homo sapiens"
CDS	<1..>645	/db-xref="taxon:9606" /note="unnamed protein product" /codon-start=1 /protein-id="CAC69720.1" /db-xref="GI:15592594" /translation="SHSALEIVLTQSPATLSFSP GERATLSCRASQSVGSYLAWYQQR PGQAPRPLIYDATNRTGIPTFRSGSGSGTDFTL TISSLEPEDFATYYCQHRRTFGRG TKLEIKRTVAAPSVFIFPPSDEQLKSGTASVVCL LNNFYFPREAKVQWKVDNALQSGNS QESVTEQDSKSTYLSSTLTLSKADYEKHKVYA CEVTHQGLSSPVTKSFNRGEC"

SEQUENCE (SEQ):

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481 caggagagtg tcacagagca ggacagcaag gacagcacct acagcctcag cagcaccctg
541 acgctgagca aagcagacta cgagaaacac aaagtctacg cctgcgaagt cactcatcag
601 ggcctgagct cgcccgtcac aaagagcttc aacaggggag agtgt

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L2 ANSWER 118 OF 128 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX232558 GenBank (R)
 GenBank ACC. NO. (GBN): AX232558
 GenBank VERSION (VER): AX232558.1 GI:15592591

CAS REGISTRY NO. (RN): 391057-91-3
 SEQUENCE LENGTH (SQL): 645
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 44 from Patent WO0162932.
 SOURCE: human.
 ORGANISM (ORGN): Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
 Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
 Hominidae; Homo

NUCLEIC ACID COUNT (NA): 172 a 177 c 160 g 136 t
 REFERENCE: 1 (bases 1 to 645)
 AUTHOR (AU): Deshpande, R.V.; Hitz, A.; Boyle, W.J.; Sullivan, J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein

JOURNAL (SO): Patent: WO 0162932-A 44 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..645	/organism="Homo sapiens" /db-xref="taxon:9606"
CDS	<1..>645	/note="unnamed protein product" /codon-start=1 /protein-id="CAC69719.1" /db-xref="GI:15592592" /translation="SHSALEIVMTQSPSSLSASV GDRVITTCRASQSIISRYLNWYQLK PGKAPRLLIYGASSLQSGVPSRFSGSGSGAEFTL TISSLQPEDIATYYCQHTRAFGQG TKVEIKRTVAAPSVFIFPPSDEQLKSGTASVVCL LNNFYPREAKVQWKVDNALQSGNS QESATEQDSKDYSLSTLTLSKADYEKHKVYA CEVTHQGLSSPVTKSFNRGEC"

SEQUENCE (SEQ):

```

1 tctcacagtg cacttgaaat tgtgatgacg cagtctccat cctccctgtc tgcgtctggt
61 ggagacagag tcaccatcac ttgccgggca agtcagagca ttagcagata tttaaattgg
121 tatcagctta aaccagggaa agcccctagg ctctctgatc atgggtgcatc cagtttgcaa
181 agtggagatcc catcaagggt cagtggcagt ggatctgggg cagagttcac tctcaccatc
241 agcagtctac aacctgaaga cattgccact tactactgtc aacacactcg ggcgttcggc
301 caagggacca aggttgaaat caagcgaact gtggctgcac catctgtctt catcttcccg
361 ccattctgatg agcagttgaa atctggaact gcctctgttg tgtgctgtct gaataacttc
421 tatcccagag aggccaaagt acagtggaag gtggataacg cctccaatc gggtaactcc
481 caggagagtg ccacagagca ggacagcaag gacagcacct acagcctcag cagcaccctg
541 acgctgagca aagcagacta cgagaaacac aaagtctacg cctgcgaagt caccatcag
601 ggcctgagct cgcccgctac aaagagcttc aacaggggag agtgt

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L2 ANSWER 119 OF 128 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX232555 GenBank (R)
 GenBank ACC. NO. (GBN): AX232555
 GenBank VERSION (VER): AX232555.1 GI:15592589
 CAS REGISTRY NO. (RN): 357143-28-3
 SEQUENCE LENGTH (SQL): 32
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 41 from Patent WO0162932.
 SOURCE: human.
 ORGANISM (ORGN): Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
 Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
 Hominidae; Homo

NUCLEIC ACID COUNT (NA): 6 a 10 c 5 g 11 t
 REFERENCE: 1 (bases 1 to 32)
 AUTHOR (AU): Deshpande, R.V.; Hitz, A.; Boyle, W.J.; Sullivan, J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein

JOURNAL (SO): Patent: WO 0162932-A 41 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..32	/organism="Homo sapiens"
		/db-xref="taxon:9606"
CDS	<20..>31	/note="unnamed protein product"
		/codon-start=1
		/protein-id="CAC69718.1"
		/db-xref="GI:15592590"
		/translation="TLSP"

SEQUENCE (SEQ):

1 ttggacgtc gacttattaa cactctcccc tg

L2 ANSWER 120 OF 128 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX232553 GenBank (R)
GenBank ACC. NO. (GBN): AX232553
GenBank VERSION (VER): AX232553.1 GI:15592587
CAS REGISTRY NO. (RN): 357143-27-2
SEQUENCE LENGTH (SQL): 44
MOLECULE TYPE (CI): DNA; linear
DIVISION CODE (CI): Patent
DATE (DATE): 11 Sep 2001
DEFINITION (DEF): Sequence 39 from Patent WO0162932.
SOURCE: human.
ORGANISM (ORGN): Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
Hominidae; Homo
NUCLEIC ACID COUNT (NA): 11 a 6 c 15 g 12 t
REFERENCE: 1 (bases 1 to 44)
AUTHOR (AU): Deshpande, R.V.; Hitz, A.; Boyle, W.J.; Sullivan, J.K.
TITLE (TI): Antagonistic selective binding agents of
osteoprotegerin ***binding***
protein
JOURNAL (SO): Patent: WO 0162932-A 39 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..44	/organism="Homo sapiens"
		/db-xref="taxon:9606"
CDS	<2..>43	/note="unnamed protein product"
		/codon-start=1
		/protein-id="CAC69717.1"
		/db-xref="GI:15592588"
		/translation="WLRGARCEIVMTQS"

SEQUENCE (SEQ):

1 gtggttgaga ggtgccagat gtgaaattgt gatgacacag tctc

L2 ANSWER 121 OF 128 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX232551 GenBank (R)
GenBank ACC. NO. (GBN): AX232551
GenBank VERSION (VER): AX232551.1 GI:15592585
CAS REGISTRY NO. (RN): 357143-26-1
SEQUENCE LENGTH (SQL): 48
MOLECULE TYPE (CI): DNA; linear
DIVISION CODE (CI): Patent
DATE (DATE): 11 Sep 2001
DEFINITION (DEF): Sequence 37 from Patent WO0162932.
SOURCE: human.
ORGANISM (ORGN): Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
Hominidae; Homo
NUCLEIC ACID COUNT (NA): 6 a 13 c 16 g 13 t
REFERENCE: 1 (bases 1 to 48)

AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 37 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..48	/organism="Homo sapiens" /db-xref="taxon:9606"
CDS	<3..>47	/note="unnamed protein product" /codon-start=1 /protein-id="CAC69716.1" /db-xref="GI:15592586" /translation="AQLLGLLLLLWLRGAR"

SEQUENCE (SEQ):

1 ccgctcagct cctggggctc ctgctattgt ggttgagagg tgccagat

L2 ANSWER 122 OF 128 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX232549 GenBank (R)
 GenBank ACC. NO. (GBN): AX232549
 GenBank VERSION (VER): AX232549.1 GI:15592583
 CAS REGISTRY NO. (RN): 357143-25-0
 SEQUENCE LENGTH (SQL): 48
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 35 from Patent WO0162932.
 SOURCE: human.
 ORGANISM (ORGN): Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
 Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
 Hominidae; Homo
 NUCLEIC ACID COUNT (NA): 10 a 16 c 14 g 8 t
 REFERENCE: 1 (bases 1 to 48)
 AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 35 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..48	/organism="Homo sapiens" /db-xref="taxon:9606"
CDS	17..>46	/note="unnamed protein product" /codon-start=1 /protein-id="CAC69715.1" /db-xref="GI:15592584" /translation="MDMRVPAQLL"

SEQUENCE (SEQ):

1 cagaagcttg accaccatgg acatgagggt ccccgctcag ctccctggg

L2 ANSWER 123 OF 128 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX232547 GenBank (R)
 GenBank ACC. NO. (GBN): AX232547
 GenBank VERSION (VER): AX232547.1 GI:15592582
 CAS REGISTRY NO. (RN): 357143-24-9
 SEQUENCE LENGTH (SQL): 30
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 33 from Patent WO0162932.
 SOURCE: human.
 ORGANISM (ORGN): Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;

Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
Hominidae; Homo
NUCLEIC ACID COUNT (NA): 7 a 5 c 14 g 4 t
REFERENCE: 1 (bases 1 to 30)
AUTHOR (AU): Deshpande, R.V.; Hitz, A.; Boyle, W.J.; Sullivan, J.K.
TITLE (TI): Antagonistic selective binding agents of
osteoprotegerin ***binding***
protein
JOURNAL (SO): Patent: WO 0162932-A 33 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..30	/organism="Homo sapiens" /db-xref="taxon:9606"

SEQUENCE (SEQ):

1 gtggaggcac tagagacggt gaccagggtg

L2 ANSWER 124 OF 128 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX232545 GenBank (R)
GenBank ACC. NO. (GBN): AX232545
GenBank VERSION (VER): AX232545.1 GI:15592580
CAS REGISTRY NO. (RN): 357143-23-8
SEQUENCE LENGTH (SQL): 42
MOLECULE TYPE (CI): DNA; linear
DIVISION CODE (CI): Patent
DATE (DATE): 11 Sep 2001
DEFINITION (DEF): Sequence 31 from Patent WO0162932.
SOURCE: human.
ORGANISM (ORGN): Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
Hominidae; Homo
NUCLEIC ACID COUNT (NA): 9 a 12 c 12 g 9 t
REFERENCE: 1 (bases 1 to 42)
AUTHOR (AU): Deshpande, R.V.; Hitz, A.; Boyle, W.J.; Sullivan, J.K.
TITLE (TI): Antagonistic selective binding agents of
osteoprotegerin ***binding***
protein
JOURNAL (SO): Patent: WO 0162932-A 31 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..42	/organism="Homo sapiens" /db-xref="taxon:9606"
CDS	<1..>42	/note="unnamed protein product" /codon-start=1 /protein-id="CAC69714.1" /db-xref="GI:15592581" /translation="SVTTGVHSQVQLVQ"

SEQUENCE (SEQ):

1 tcagtaacga ctggtgtcca ctcacaggtc cagctggtgc ag

L2 ANSWER 125 OF 128 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX232542 GenBank (R)
GenBank ACC. NO. (GBN): AX232542
GenBank VERSION (VER): AX232542.1 GI:15592578
CAS REGISTRY NO. (RN): 357143-22-7
SEQUENCE LENGTH (SQL): 44
MOLECULE TYPE (CI): DNA; linear
DIVISION CODE (CI): Patent
DATE (DATE): 11 Sep 2001
DEFINITION (DEF): Sequence 28 from Patent WO0162932.
SOURCE: human.
ORGANISM (ORGN): Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;

Hominidae; Homo

NUCLEIC ACID COUNT (NA): 6 a 12 c 10 g 16 t

REFERENCE: 1 (bases 1 to 44)

AUTHOR (AU): Deshpande, R.V.; Hitz, A.; Boyle, W.J.; Sullivan, J.K.

TITLE (TI): Antagonistic selective binding agents of
osteoprotegerin ***binding***
protein

JOURNAL (SO): Patent: WO 0162932-A 28 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..44	/organism="Homo sapiens"
		/db-xref="taxon:9606"
CDS	<2..31	/note="unnamed protein product"
		/codon-start=1
		/protein-id="CAC69713.1"
		/db-xref="GI:15592579"
		/translation="AGSFSSSCQ"

SEQUENCE (SEQ):

1 agctgggtct ttctcttctt cctgtcagta acgactgggtg tcca

L2 ANSWER 126 OF 128 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX232540 GenBank (R)

GenBank ACC. NO. (GBN): AX232540

GenBank VERSION (VER): AX232540.1 GI:15592576

CAS REGISTRY NO. (RN): 357143-21-6

SEQUENCE LENGTH (SQL): 45

MOLECULE TYPE (CI): DNA; linear

DIVISION CODE (CI): Patent

DATE (DATE): 11 Sep 2001

DEFINITION (DEF): Sequence 26 from Patent WO0162932.

SOURCE: human.

ORGANISM (ORGN): Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
Hominidae; Homo

NUCLEIC ACID COUNT (NA): 10 a 11 c 11 g 13 t

REFERENCE: 1 (bases 1 to 45)

AUTHOR (AU): Deshpande, R.V.; Hitz, A.; Boyle, W.J.; Sullivan, J.K.

TITLE (TI): Antagonistic selective binding agents of
osteoprotegerin ***binding***
protein

JOURNAL (SO): Patent: WO 0162932-A 26 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..45	/organism="Homo sapiens"
		/db-xref="taxon:9606"
CDS	18..>44	/note="unnamed protein product"
		/codon-start=1
		/protein-id="CAC69712.1"
		/db-xref="GI:15592577"
		/translation="MEWSWVFLF"

SEQUENCE (SEQ):

1 cagaagctta gaccaccatg gaatggagct gggctcttct cttct

L2 ANSWER 127 OF 128 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX232537 GenBank (R)

GenBank ACC. NO. (GBN): AX232537

GenBank VERSION (VER): AX232537.1 GI:15592575

CAS REGISTRY NO. (RN): 383240-49-1

SEQUENCE LENGTH (SQL): 24

MOLECULE TYPE (CI): DNA; linear

DIVISION CODE (CI): Patent

DATE (DATE): 11 Sep 2001

DEFINITION (DEF): Sequence 23 from Patent WO0162932.

SOURCE: human.
 ORGANISM (ORGN): Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
 Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
 Hominidae; Homo

NUCLEIC ACID COUNT (NA): 3 a 5 c 5 g 11 t
 REFERENCE: 1 (bases 1 to 24)
 AUTHOR (AU): Deshpande, R.V.; Hitz, A.; Boyle, W.J.; Sullivan, J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein

JOURNAL (SO): Patent: WO 0162932-A 23 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..24	/organism="Homo sapiens" /db-xref="taxon:9606"

SEQUENCE (SEQ):
 1 ttgtcgtct ttccagacgt tagt

L2 ANSWER 128 OF 128 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX232536 GenBank (R)
 GenBank ACC. NO. (GBN): AX232536
 GenBank VERSION (VER): AX232536.1 GI:15592574
 CAS REGISTRY NO. (RN): 357143-20-5
 SEQUENCE LENGTH (SQL): 18
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 22 from Patent WO0162932.
 SOURCE: human.
 ORGANISM (ORGN): Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
 Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
 Hominidae; Homo

NUCLEIC ACID COUNT (NA): 3 a 6 c 3 g 6 t
 REFERENCE: 1 (bases 1 to 18)
 AUTHOR (AU): Deshpande, R.V.; Hitz, A.; Boyle, W.J.; Sullivan, J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein

JOURNAL (SO): Patent: WO 0162932-A 22 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..18	/organism="Homo sapiens" /db-xref="taxon:9606"

SEQUENCE (SEQ):
 1 ccgactttgc acctagtt

=> S L2 AND antibody
 22 FILES SEARCHED...
 36 FILES SEARCHED...
 62 FILES SEARCHED...

L3 21 L2 AND ANTIBODY

=> D L3 1-21

L3 ANSWER 1 OF 21 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN
 AN 2002-00826 BIOTECHDS
 TI ***Antibodies*** that bind antagonistically to osteoprotein binding,
 useful for treating osteoporosis, metastasis of cancer to bone, rheumatoid
 arthritis, hypercalcemia of malignancy and steroid osteoporosis;
 monoclonal ***antibody*** and humanized ***antibody***, vector
 expression in CHO cell
 AU Deshpande R V; Hitz A; Boyle W J; Sullivan J K

PA Amgen
LO Thounsand Oaks, CA, USA.
PI WO 2001062932 30 Aug 2001
AI WO 2001-US5973 23 Feb 2001
PRAI US 2001-791153 22 Mar 2001; US 2000-511139 23 Feb 2000
DT Patent
LA English
OS WPI: 2001-557706 [62]

L3 ANSWER 2 OF 21 BIOTECHNO COPYRIGHT 2005 Elsevier Science B.V. on STN
AN 2002:34223904 BIOTECHNO
TI Antagonistic selective binding agents of ***osteoprotegerin***
binding ***protein***
SO Expert Opinion on Therapeutic Patents, (2002), 12/3 (469-470), 5
reference(s)
CODEN: EOTPEG ISSN: 1354-3776
DT Journal; Article
CY United Kingdom
LA English
SL English

L3 ANSWER 3 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2003:435069 CAPLUS
DN 139:35078
TI Selective binding agents of ***osteoprotegerin*** ***binding***
protein (OPGbp), such as antagonist ***antibodies***, for use
in the treatment of bone disorders
IN Deshpande, Rajendra V.; Hitz, Anna; Boyle, William James; Sullivan, John
K.
PA Amgen Inc., USA
SO U.S. Pat. Appl. Publ., 123 pp., Cont.-in-part of U.S. Ser. No. 511,139,
abandoned.
CODEN: USXXCO

DT Patent
LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2003103978	A1	20030605	US 2001-791153	20010222
	CA 2400929	AA	20010830	CA 2001-2400929	20010223
	WO 2001062932	A1	20010830	WO 2001-US5973	20010223
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,				
	CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,				
	HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,				
	LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,				
	SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU,				
	ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,				
	DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,				
	BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP	1257648	A1	20021120	EP 2001-911158	20010223
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				
	IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP	2003523772	T2	20030812	JP 2001-562706	20010223
PRAI	US 2000-511139	B2	20000223		
	US 2001-791153	A	20010222		
	WO 2001-US5973	W	20010223		

L3 ANSWER 4 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1998:712352 CAPLUS
DN 129:328897
TI A protein binding osteoprotegerin playing a role in osteoclast maturation
for use in the treatment of bone loss
IN Boyle, William J.
PA Amgen Inc., USA
SO PCT Int. Appl., 108 pp.
CODEN: PIXXD2
DT Patent
LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----

PI WO 9846751 A1 19981022 WO 1998-US7584 19980415
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG,
KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX,
NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT,
UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES,
FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,
CM, GA, GN, ML, MR, NE, SN, TD, TG
US 5843678 A 19981201 US 1997-842842 19970416
US 6316408 B1 20011113 US 1998-52521 19980330
CA 2285746 AA 19981022 CA 1998-2285746 19980415
AU 9871205 A1 19981111 AU 1998-71205 19980415
AU 743257 B2 20020124
EP 975754 A1 20000202 EP 1998-918244 19980415
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO
BR 9808545 A 20000523 BR 1998-8545 19980415
EE 9900611 A 20000815 EE 1999-611 19980415
JP 2001526532 T2 20011218 JP 1998-544257 19980415
NZ 500253 A 20020927 NZ 1998-500253 19980415
ZA 9803189 A 19981016 ZA 1998-3189 19980416
US 2003104485 A1 20030605 US 1998-79569 19980514
MX 9909387 A 20000630 MX 1999-9387 19991013
NO 9905044 A 19991215 NO 1999-5044 19991015
AU 2001095234 A5 20020124 AU 2001-95234 20011130
PRAI US 1997-842842 A 19970416
US 1997-880855 A2 19970623
US 1998-52521 A 19980330
AU 1998-71205 A3 19980415
WO 1998-US7584 W 19980415
RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 5 OF 21 IFIPAT COPYRIGHT 2005 IFI on STN
AN 10764698 IFIPAT;IFIUDB;IFICDB
TI ***OSTEOPROTEGERIN*** ***BINDING*** ***PROTEINS*** AND
RECEPTORS
IN Boyle William J
PA Amgen Inc (12117)
PI US 2005003400 A1 20050106
AI US 2004-825898 20040415
RLI US 1998-52521 19980330 CONTINUATION 6316408
US 2000-721212 20001121 CONTINUATION ABANDONED
US 1997-842842 19970416 CONTINUATION-IN-PART 5843678
US 1997-880855 19970623 CONTINUATION-IN-PART ABANDONED
FI US 2005003400 20050106
US 6316408
US 5843678
DT Utility; Patent Application - First Publication
FS CHEMICAL
APPLICATION
CLMN 15

L3 ANSWER 6 OF 21 IFIPAT COPYRIGHT 2005 IFI on STN
AN 10360068 IFIPAT;IFIUDB;IFICDB
TI ***ANTIBODIES*** SPECIFIC FOR ***OSTEOPROTEGERIN***
BINDING ***PROTEINS*** AND METHOD OF USE; NUCLEOTIDE
SEQUENCES CODING POLYPEPTIDE FOR USE IN TREATMENT OF BONE DISORDERS
IN BOYLE WILLIAM J
PA Unassigned Or Assigned To Individual (68000)
PI US 2003104485 A1 20030605
AI US 1998-79569 19980514
RLI US 1997-842842 19970416 DIVISION 5843678
FI US 2003104485 20030605
US 5843678
DT Utility; Patent Application - First Publication
FS CHEMICAL
APPLICATION
CLMN 33
GI 3 Figure(s).

FIG. 1. Structure and sequence of the 32D-F3 insert encoding OPG binding

protein. Predicted transmembrane domain and sites for asparagine-linked carbohydrate chains are underlined.

FIG. 2. OPG binding protein expression in COS-7 cells transfected with pcdNA/32I)-F3. Cells were lipofected with pcdNA/32D-F3 DNA, the assayed for binding to either goat antihuman IgG1 alkaline phosphatase conjugate (secondary alone), human OPG(22-201)-Fc plus secondary (OPG-Fc), or a chimeric ATAR extracellular domain-Fc fusion protein (sATAR-Fc). ATAR is a new member of the TNFR superfamily, and the sATAR-Fc fusion protein serves as a control for both human IgG1 Fc domain binding, and generic TNFR related protein, binding to 32D cell surface molecules.

FIG. 3. Expression of OPG binding protein in human tissues. Northern blot analysis of human tissue mRNA (Clontech) using a radiolabeled 32D-F3 derived hybridization probe. Relative molecular mass is indicated at the left in kilobase pairs (kb). Arrowhead on right side indicates the migration of an approximately 2.5 kb transcript detected in lymph node mRNA. A very faint band of the same mass is also detected in fetal liver.

L3 ANSWER 7 OF 21 IFIPAT COPYRIGHT 2005 IFI on STN
AN 10356071 IFIPAT;IFIUDB;IFICDB
TI ***OSTEOPROTEGERIN*** ***BINDING*** ***PROTEINS*** ; FOR
THERAPY OF BONE DISEASES, SUCH AS OSTEOPOROSIS, BONE LOSS FROM ARTHRITIS,
PAGET'S DISEASE, AND HYPERCALCEMIA
IN BOYLE WILLIAM J
PA Unassigned Or Assigned To Individual (68000)
PI US 2003100488 A1 20030529
AI US 1998-211297 19981214
RLI US 1997-880855 19970623 CONTINUATION
US 1997-842842 19970416 CONTINUATION-IN-PART 5843678
FI US 2003100488 20030529
US 5843678
DT Utility; Patent Application - First Publication
FS CHEMICAL
APPLICATION
CLMN 36
GI 9 Figure(s).

FIG. 1. Structure and sequence of the 32D-F3 insert encoding OPG binding protein. Predicted transmembrane domain and sites for asparagine-linked carbohydrate chains are underlined.

FIG. 2. OPG binding protein expression in COS-7 cells transfected with pcdNA/32D-F3. Cells were lipofected with pcdNA/ 32D-F3 DNA, the assayed for binding to either goat anti-human IgG1 alkaline phosphatase conjugate (secondary alone), human OPG(22-201)-Fc plus secondary (OPG-Fc), or a chimeric ATAR extracellular domain-Fc fusion protein (sATAR-Fc). ATAR is a new member of the TNFR superfamily, and the sATAR-Fc fusion protein serves as a control for both human IgG1 Fc domain binding, and generic TNFR related protein, binding to 32D cell surface molecules.

FIG. 3. Expression of OPG binding protein in human tissues. Northern blot analysis of human tissue mRNA (Clontech) using a radiolabeled 32D-F3 derived hybridization probe. Relative molecular mass is indicated at the left in kilobase pairs (kb). Arrowhead on right side indicates the migration of an approximately 2.5 kb transcript detected in lymph node mRNA. A very faint band of the same mass is also detected in fetal liver.

FIG. 4. Structure and sequence of the pcdNA/hu OPGbp 1.1 insert encoding the human OPG binding protein. The predicted transmembrane domain and site for asparagine-linked carbohydrate chains are underlined.

FIG. 5. Stimulation of osteoclast development in vitro from bone marrow macrophage and ST2 cell cocultures treated with recombinant murine OPG binding protein (158-316). Cultures were treated with varying concentrations of murine OPG binding protein ranging from 1.6 to 500 ng/ml. After 8-10 days, cultures were lysed, and TRAP activity was measured by solution assay. In addition, some cultures were simultaneously treated with 1, 10, 100, 500, and 1000 ng/ml of recombinant murine OPG (22-401)-Fc protein. Murine OPG binding protein induces a dosedependent stimulation in osteoclast formation, whereas OPG (22401)-Fc inhibits osteoclast formation.

FIG. 6. Stimulation of osteoclast development from bone marrow precursors in vitro in the presence of M-CSF and murine OPG binding protein (158-316). Mouse bone marrow was harvested, and cultured in the presence 250, 500, 1000, and 2000 U/ml of M-CSF. Varying concentrations of OPG binding protein (158-316), ranging from 1.6 to 500 ng/ml, were added to these same cultures. Osteoclast development was measured by TRAP solution assay.

FIG. 7. Osteoclasts derived from bone marrow cells in the presence of both M-CSF and OPG binding protein (158-316) resorb bone in vitro. Bone marrow cells treated with either M-CSF, OPG binding protein, or with both factors combined, were plated onto bone slices in culture wells, and were allowed to develop into mature osteoclasts. The resulting cultures were then stained with Toluidine Blue (left column), or histochemically to detect TRAP enzyme activity (right column). In cultures receiving both factors, mature osteoclasts were formed that were capable of eroding bone as judged by the presence of blue stained pits on the bone surface. This correlated with the presence of multiple large, multinucleated, TRAP positive cells.

FIG. 8. Graph showing the whole blood ionized calcium (iCa) levels from mice injected with OPG binding protein, 51 hours after the first injection, and in mice also receiving concurrent OPG administration. OPG binding protein significantly and dose dependently increased iCa levels. OPG (1 mg/kg/day) completely blocked the increase in iCa at a dose of OPG binding protein of 5 ug/day, and partially blocked the increase at a dose of OPG binding protein of 25 ug/day. (*), different to vehicle treated control (p less-than 0.05). (#), OPG treated iCa level significantly different to level in mice receiving that dose of OPG binding protein alone (p less-than 0.05).

FIG. 9. Radiographs of the left femur and tibia in mice treated with 0, 5, 25 or 100 ug/day of OPG binding protein for 3.5 days. There is a dose dependent decrease in bone density evident most clearly in the proximal tibial metaphysis of these mice, and that is profound at a dose of 100 ug/day.

L3 ANSWER 8 OF 21 USPATFULL on STN
 AN 2005:81108 USPATFULL
 TI Targeted ligands
 IN Herman, William, Thornhill, CANADA
 PI US 2005069549 A1 20050331
 AI US 2004-501453 A1 20041122 (10)
 WO 2003-CA44 20030114
 PRAI CA 2002-2368708 20020114
 WO 2002-CA317 20020311
 CA 2002-2397169 20020813
 CA 2002-2402930 20020919
 DT Utility
 FS APPLICATION
 LN.CNT 9273
 INCL INCLM: 424/178.100
 NCL NCLM: 424/178.100
 IC [7]
 ICM: A61K039-395

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 9 OF 21 USPATFULL on STN
 AN 2004:203879 USPATFULL
 TI Rank-ligand-induced sodium/proton antiporter polypeptides
 IN Bird, Timothy A., Bainbridge, WA, UNITED STATES
 Tometsko, Mark E., Seattle, WA, UNITED STATES
 Dougall, William C., Seattle, WA, UNITED STATES
 Mosley, Bruce A., Seattle, WA, UNITED STATES
 PI US 2004157771 A1 20040812
 AI US 2003-372613 A1 20030221 (10)
 PRAI US 2002-361891P 20020228 (60)
 DT Utility
 FS APPLICATION
 LN.CNT 5274
 INCL INCLM: 514/012.000
 INCLS: 530/350.000; 435/069.100; 435/320.100; 435/325.000; 536/023.500
 NCL NCLM: 514/012.000
 NCLS: 530/350.000; 435/069.100; 435/320.100; 435/325.000; 536/023.500
 IC [7]
 ICM: A61K038-17
 ICS: C07K014-705; C07H021-04

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 10 OF 21 USPATFULL on STN
 AN 2003:277129 USPATFULL
 TI Peptides and related molecules that bind to TALL-1

IN Min, Hosung, Newbury Park, CA, UNITED STATES
Hsu, Hailing, Moorpark, CA, UNITED STATES
Xiong, Fei, Thousand Oaks, CA, UNITED STATES

PA Amgen Inc. (U.S. corporation)

PI US 2003195156 A1 20031016

AI US 2002-145206 A1 20020513 (10)

PRAI US 2001-290196P 20010511 (60)

DT Utility

FS APPLICATION

LN.CNT 2728

INCL INCLM: 514/014.000

INCLS: 514/015.000

NCL NCLM: 514/014.000

NCLS: 514/015.000

IC [7]

ICM: A61K038-10

ICS: A61K038-08

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 11 OF 21 USPATFULL on STN

AN 2003:146245 USPATFULL

TI TALL-1 receptor molecules and uses thereof

IN Hsu, Hailing, Moorpark, CA, UNITED STATES

PA Amgen Inc. A Corporation of the State of Delaware (U.S. corporation)

PI US 2003099990 A1 20030529

AI US 2002-251947 A1 20020920 (10)

PRAI US 2001-324238P 20010921 (60)

DT Utility

FS APPLICATION

LN.CNT 4507

INCL INCLM: 435/006.000

INCLS: 435/007.200; 435/069.100; 435/320.100; 435/325.000; 530/350.000;
536/023.500

NCL NCLM: 435/006.000

NCLS: 435/007.200; 435/069.100; 435/320.100; 435/325.000; 530/350.000;
536/023.500

IC [7]

ICM: C12Q001-68

ICS: G01N033-53; G01N033-567; C07H021-04; C12P021-02; C12N005-06;
C07K014-705

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 12 OF 21 USPATFULL on STN

AN 2003:57548 USPATFULL

TI Composition and methods for the production of biological tissues and
tissue constructs

IN Mizuno, Shuichi, Brookline, MA, UNITED STATES

Tokuno, Toshimasa, Tokyo, JAPAN

Berlowitz Tarrant, Laurence J., Easthampton, MA, UNITED STATES

PA Histogenics Corporation, Easthampton, MA (U.S. corporation)

PI US 2003040113 A1 20030227

AI US 2002-104677 A1 20020322 (10)

PRAI US 2001-278534P 20010323 (60)

US 2002-352085P 20020124 (60)

DT Utility

FS APPLICATION

LN.CNT 1569

INCL INCLM: 435/395.000

NCL NCLM: 435/395.000

IC [7]

ICM: C12N005-02

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 13 OF 21 USPATFULL on STN

AN 2003:29843 USPATFULL

TI Use of rank antagonists to treat cancer

IN Dougall, William C., Seattle, WA, UNITED STATES

PI US 2003021785 A1 20030130

AI US 2002-166232 A1 20020605 (10)

PRAI US 2001-296670P 20010606 (60)

DT Utility

FS APPLICATION

LN.CNT 1870
INCL INCLM: 424/146.100
INCLS: 514/012.000; 514/044.000
NCL NCLM: 424/146.100
NCLS: 514/012.000; 514/044.000
IC [7]
ICM: A61K048-00
ICS: A61K038-17; A61K039-395
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 14 OF 21 USPATFULL on STN
AN 2003:23315 USPATFULL
TI Therapeutic use of rank antagonists
IN Dougall, William C., Seattle, WA, UNITED STATES
Anderson, Dirk M., Seattle, WA, UNITED STATES
PI US 2003017151 A1 20030123
AI US 2002-151071 A1 20020517 (10)
PRAI US 2001-291919P 20010517 (60)
DT Utility
FS APPLICATION
LN.CNT 2176
INCL INCLM: 424/143.100
INCLS: 514/044.000
NCL NCLM: 424/143.100
NCLS: 514/044.000
IC [7]
ICM: A61K048-00
ICS: A61K039-395
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 15 OF 21 USPATFULL on STN
AN 2003:17899 USPATFULL
TI Stimulation of osteogenesis using rank ligand fusion proteins
IN Lam, Jonathan, West Memphis, AR, UNITED STATES
Ross, F. Patrick, Olivette, MO, UNITED STATES
Teitelbaum, Steven L., University City, MO, UNITED STATES
PA Barnes-Jewish Hospital (2)
PI US 2003013651 A1 20030116
AI US 2002-105057 A1 20020322 (10)
PRAI US 2001-277855P 20010322 (60)
US 2001-311163P 20010809 (60)
US 2001-329231P 20011012 (60)
US 2001-328876P 20011012 (60)
US 2001-329393P 20011015 (60)
DT Utility
FS APPLICATION
LN.CNT 1942
INCL INCLM: 514/012.000
NCL NCLM: 514/012.000
IC [7]
ICM: A61K038-17
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 16 OF 21 USPATFULL on STN
AN 2002:287553 USPATFULL
TI Receptor from TNF family
IN Boyle, William J., Moorpark, CA, UNITED STATES
Hsu, Hailing, Moorpark, CA, UNITED STATES
PI US 2002160416 A1 20021031
AI US 2001-779050 A1 20010212 (9)
PRAI US 2000-181800P 20000211 (60)
DT Utility
FS APPLICATION
LN.CNT 2856
INCL INCLM: 435/007.100
INCLS: 530/389.100; 530/395.000; 536/053.000
NCL NCLM: 435/007.100
NCLS: 530/389.100; 530/395.000; 536/053.000
IC [7]
ICM: G01N033-53
ICS: C07K016-46; C08B037-00
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 17 OF 21 USPATFULL on STN
AN 2002:272856 USPATFULL
TI TNF receptor-like molecules and uses thereof
IN Theill, Lars Eyde, Thousand Oaks, CA, UNITED STATES
Yeh, Richard, Ithaca, NY, UNITED STATES
Silbiger, Scott Michael, Woodland Hills, CA, UNITED STATES
Yu, Gang, Thousand Oaks, CA, UNITED STATES
Senaldi, Giorgio, Thousand Oaks, CA, UNITED STATES
PI US 2002150977 A1 20021017
AI US 2001-948018 A1 20010905 (9)
PRAI US 2000-230191P 20000905 (60)
DT Utility
FS APPLICATION
LN.CNT 5781
INCL INCLM: 435/069.100
INCLS: 435/325.000; 435/320.100; 530/350.000; 536/023.500; 435/194.000
NCL NCLM: 435/069.100
NCLS: 435/325.000; 435/320.100; 530/350.000; 536/023.500; 435/194.000
IC [7]
ICM: C12P021-02
ICS: C12N005-06; C07H021-04; C12N009-12
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 18 OF 21 USPATFULL on STN
AN 2002:164694 USPATFULL
TI Screening assays for agonists and antagonists of receptor activator of
NF-kappa B
IN Dougall, William C., Seattle, WA, UNITED STATES
PI US 2002086312 A1 20020704
US 6884598 B2 20050426
AI US 2001-957944 A1 20010920 (9)
PRAI US 2000-235157P 20000922 (60)
DT Utility
FS APPLICATION
LN.CNT 3029
INCL INCLM: 435/006.000
INCLS: 435/007.210
NCL NCLM: 435/008.000
NCLS: 435/007.100; 435/007.200; 530/350.000; 536/023.500
IC [7]
ICM: C12Q001-68
ICS: G01N033-567
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 19 OF 21 USPATFULL on STN
AN 2002:164405 USPATFULL
TI Methods and compositions of matter concerning APRIL/G70, BCMA,
BLYS/AGP-3, and TACI
IN Theill, Lars Eyde, Thousand Oaks, CA, UNITED STATES
Yu, Gang, Thousand Oaks, CA, UNITED STATES
PI US 2002086018 A1 20020704
AI US 2001-855158 A1 20010514 (9)
PRAI US 2000-204039P 20000512 (60)
US 2000-214591P 20000627 (60)
DT Utility
FS APPLICATION
LN.CNT 1973
INCL INCLM: 424/146.100
INCLS: 424/153.100
NCL NCLM: 424/146.100
NCLS: 424/153.100
IC [7]
ICM: A61K039-395
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 20 OF 21 USPATFULL on STN
AN 2002:156701 USPATFULL
TI Methods and compositions of matter concerning APRIL/G70, BCMA,
BLYS/AGP-3 and TACI
IN Theill, Lars Eyde, Thousand Oaks, CA, UNITED STATES
Yu, Gang, Thousand Oaks, CA, UNITED STATES

PI US 2002081296 A1 20020627
US 6774106 B2 20040810
AI US 2001-854864 A1 20010514 (9)
PRAI US 2000-204039P 20000512 (60)
US 2000-214591P 20000627 (60)

DT Utility
FS APPLICATION

LN.CNT 2383

INCL INCLM: 424/144.100

INCLS: 424/155.100

NCL NCLM: 514/012.000

NCLS: 424/185.100; 424/192.100

IC [7]

ICM: A61K039-395

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 21 OF 21 USPATFULL on STN

AN 2001:14213 USPATFULL

TI Method for diagnosing and treating chronic pelvic pain syndrome

IN Alexander, Richard B., Ellicott City, MD, United States

Ponniah, Sathibalan, Ellicott City, MD, United States

PA University of Maryland, Baltimore, Baltimore, MD, United States (U.S.
corporation)

PI US 6180355 B1 20010130

AI US 1999-306927 19990507 (9)

PRAI US 1998-84668P 19980507 (60)

DT Utility

FS Granted

LN.CNT 3501

INCL INCLM: 435/007.100

INCLS: 435/007.800

NCL NCLM: 435/007.100

NCLS: 435/007.800

IC [7]

ICM: G01N033-50

ICS: G01N033-53

EXF 435/7.1; 435/7.8; 435/7.92; 435/7.94; 424/1.41; 424/145.1; 424/158.1;
436/501; 436/86; 436/87

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

STN INTERNATIONAL LOGOFF AT 11:57:12 ON 11 MAY 2005